



14th International Conference on

**Vibration Engineering and
Technology of Machinery**

Lisbon, Portugal, 10-13 September 2018

Programme

Prepared by

Nuno Maia and Zuzana Dimitrovová

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Welcome Message

We are pleased to welcome you to Lisbon for the 14th International Conference on Vibration Engineering and Technology of Machinery (VETOMAC XIV) held at Instituto Superior Técnico of the University of Lisbon under the joint organization of IDMEC - Institute of Engineering Mechanics, Instituto Superior Técnico, University of Lisbon (IDMEC/IST/UL) and the Department of Civil Engineering, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (DEC/FCT/UNL).

The main objective of the conference is to bring together researchers and engineers devoting their work to vibration-related problems in different areas of engineering applications on a common platform.

We strongly believe that VETOMAC XIV will have a significant impact on the development of contemporary analytical, numerical and experimental methods in vibration problems, and will also create an opportunity for opening a forum for discussion and collaboration amongst the participants.

Lisbon is a beautiful city, we wish you to enjoy the event.

Yours Sincerely,

Nuno Maia and Zuzana Dimitrovová



Organization

Organizing Institutions

- IDMEC/IST – Institute of Mechanical Engineering/Instituto Superior Técnico
- DEC/FCT – Department of Civil Engineering/Faculdade de Ciências e Tecnologia

Sponsors

- CGD- Caixa Geral de Depósitos
- Banco BPI
- IST - Instituto Superior Técnico
- CML – City Council of Lisbon (Câmara Municipal de Lisboa)
- EGEAC - Culture in Lisbon
- Museum of Lisbon - Pimenta Palace (Museu de Lisboa – Palácio Pimenta)
- Tourism of Lisbon (Turismo de Lisboa)
- SPECMAN
- Brüel & Kjær

Supporting Institutions

- The Vibration Institute of India
- IP, S.A.- Infraestruturas de Portugal (Portuguese Infrastructures)
- GEOSIN geosynthetics
- TENCATE materials that make a difference
- BBF Technology for environment
- Sotecnisol materiais
- LNEC – Laboratório Nacional de Engenharia Civil (National Laboratory of Civil Engineering)

Committees

Steering Committee

- **Prof. Jammi Srinivasa Rao** (J.S. Rao) AICTE-INAE Distinguished Visiting Professor (Chair)

BMS College of Engineering, Bangalore and Reva University, Bangalore, India

- **Prof. Ronald L. Eshleman**

Principal adviser of JVET, Technical Director for Training, Vibration Institute, IL, USA

- **Prof. José M. Balthazar**

Mechanical-Aeronautics Division, Aeronautics Technological Institute (ITA), SP, Brasil

- **Prof. Chee Wah Lim**

Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, China

- **Prof. C. Nataraj**

Director of the The Villanova Center for Analytics of Dynamic Systems (VCADS), University of Villanova, PA, USA

- **Prof. Romuald Rządkowski**

Head of the Aeroelasticity Department, Institute of Fluid Flow Machinery, Polish Academy of Sciences, Gdansk, Poland

- **Prof. Jyoti K. Sinha**

Head of the Dynamics Laboratory, School of Mechanical, Aerospace and Civil Engineering (MACE), The University of Manchester, Manchester, UK

Organizing Committee

- **Nuno Maia** – DEM/IST/UL and IDMEC/IST (Chairperson)
- **Zuzana Dimitrovová** – DEC/FCT/UNL and IDMEC/IST (Chairperson)

Scientific Committee

Douglas E. Adams, Vanderbilt University, USA

Sondipon Adhikari, Swansea University, UK

José M. Balthazar, Aeronautics Technological Institute, SP, Brasil

Walter Bartelmus, Wroclaw University of Technology, Poland

Sanjin Braut, University of Rijeka, Croatia

Steven Chatterton, Politecnico di Milano, Italy

Ashish K. Darpe, Indian Institute of Technology Delhi, India

Geert Degrande, Catholic University of Leuven, Belgium

Zuzana Dimitrovová, Nova University of Lisbon, Caparica, Portugal

Régis Dufour, INSA, Lyon, France

Mohamed El Badaoui, Jean Monnet University, France

Ronald L. Eshleman, Vibration Institute, IL, USA

Michael I. Friswell, Swansea University, UK

Mergen H. Ghayesh, University of Adelaide, Adelaide, Australia

Fengshou Gu, University of Huddersfield, UK

Wolfgang Hahn, EDF Energy, London, UK

Tianjian Ji, University of Manchester, UK

Dani Juričić, Jozef Stefan Institute, Slovenia

Piotr Koziol, Cracow University of Technology, Krakow, Poland

Arthur W. Lees, Swansea University, UK

Chee Wah Lim, City University of Hong Kong, Hong Kong, China

Nuno Maia, University of Lisbon, Lisbon, Portugal

Cristinel Mares, Brunel University, London, UK

Traian Mazilu, Universitatea Politehnica Bucuresti, Romania

David U. Mba, London South Bank University, UK

Guang Meng, Shanghai Jiao Tong University, China

Andrei V. Metrikine, Delft University of Technology, The Netherlands

Amiya R. Mohanty, Indian Institute of Technology Kharagpur, India

John Mottershead, University of Liverpool, UK

Prasanna M. Mujumdar, Indian Institute of Technology, Bombay, India

Jiří Náprstek, The Institute of Theoretical and Applied Mechanics, Czech Republic

C. Nataraj, Villanova University, USA

Huajiang Ouyang, University of Liverpool, UK

Zhi Ke Peng, Shanghai Jiao Tong University, China

Evgeny P. Petrov, University of Sussex, UK

Robert B. Randall, University of New South Wales, Australia

J.S. Rao, Reva University, Bangalore, India

Romuald Rządkowski, Polish Academy of Sciences, Gdansk, Poland

Jerzy T. Sawicki, Cleveland State University, USA

A.S. Sekhar, Indian Institute of Technology Madras, India

Alok Sinha, Pennsylvania State University, USA

Jyoti K. Sinha, University of Manchester, Manchester, UK

Michaël Steenbergen, Delft University of Technology, The Netherlands

Rajiv Tiwari, Indian Institute of Technology, Guwahati, India

Marian Wiercigroch, University of Aberdeen, UK

Ye Ping Xiong, University of Southampton, UK

Jong-Dar Yau, Tamkang University, New Taipei City, Taiwan

Jaroslav Zapoměl, VSB-Technical University of Ostrava, Czech Republic

Radosław Żimroz, KGHM CUPRUM, Wroclaw, Poland

General Information

The VETOMAC XIV takes place in the Congress Centre situated in the Alameda Campus of the Instituto Superior Técnico. The Congress Centre is in the Civil Engineering Building (see the plan on the next page with the address:

- Congress Center
(Civil Engineering Building)
Instituto Superior Técnico
Av. Rovisco Pais 1
1049-001 Lisboa



Registration Opening Hours

- Mon. 10 September, 10:00-17:30
- Tues. 11 September, 08:30-17:30
- Wed. 12 September, 08:30-17:30
- Thurs., 13 September, 08:30-17:30

VETOMAC XIV Account Department

IDMEC – Institute of Mechanical Engineering
Instituto Superior Técnico
Av. Rovisco Pais 1, 1049-001 Lisboa, Portugal
Ph: +351 218417351

Email: idmec@tecnico.ulisboa.pt

VETOMAC XIV Secretariat

Email: vetomac@campus.fct.unl.pt

Web: <http://www.conf.pt/index.php/vetomac>

Coffee-Breaks

The coffee-breaks will take place in the Halls 1 and 2 of the Conference Center (See the map of

Conference Floor Plan on page 7) and will be open to all participants. Kindly wear your Conference Badge.

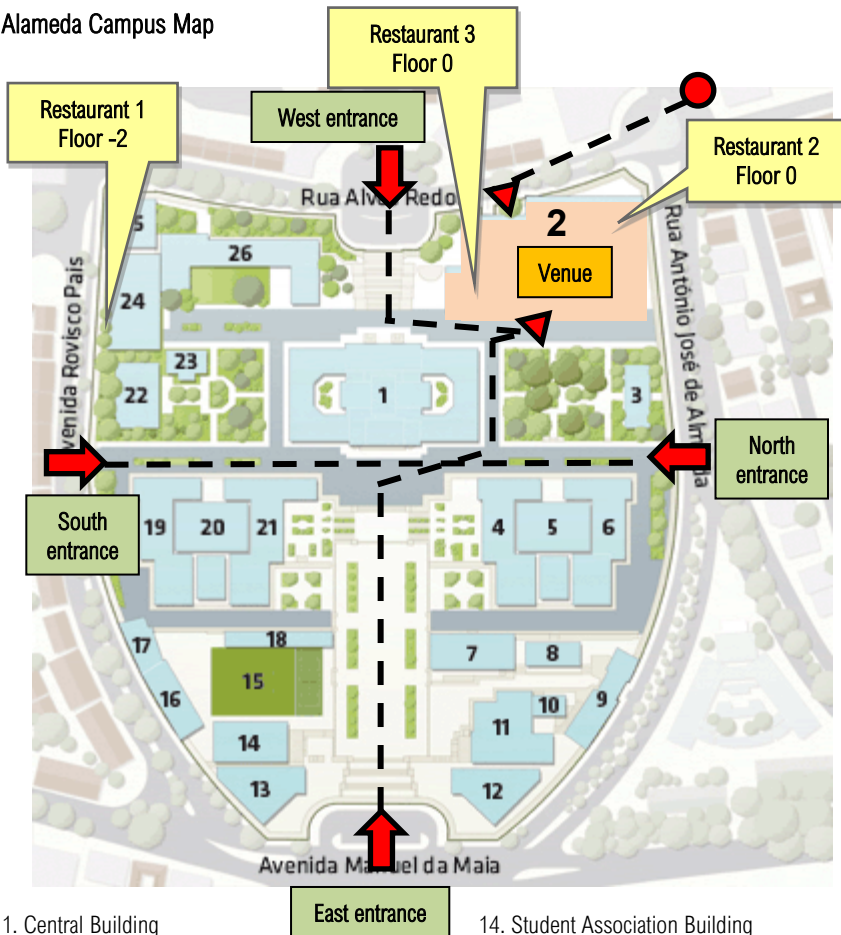
Lunches

The Lunch tickets included in the package received during the registration will be honored at the two restaurants 1 and 2 marked on the Alameda Campus Map in page 6. Note that the lunch tickets have different colors for the different days of the conference and are valid only for the day printed in the front. If you do not have lunch tickets you can have lunch in any of the three restaurants.

Alameda Campus (map on the next page)

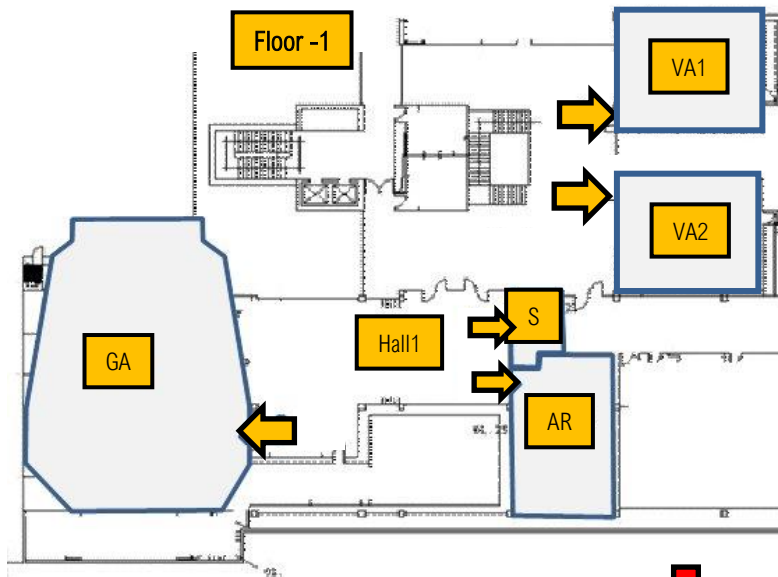
You can enter the Alameda Campus from four sides. You can enter the Civil Engineering Building, where the Congress Center is located, from two sides. If you enter from the East, you have to go down to Floors -1 and -2. If you enter from the West, you enter directly the Congress Center in the floor -2.

Alameda Campus Map



- | | |
|---|-----------------------------------|
| 1. Central Building | 14. Student Association Building |
| 2. Civil Engineering Building | 15. Games Campus |
| 3. North Garden Building | 16. Pool |
| 4. Mechanical Engineering Building I | 17. Social Association Building |
| 5. North Tower | 18. Copy Centre |
| 6. Electrical Engineering Building | 19. Mine Engineering Building |
| 7. Informatics Building II | 20. South Tower |
| 8. Mechanical Engineering Building IV | 21. Chemical Engineering Building |
| 9. Informatics Building I | 22. South Garden Building |
| 10. Informatics Building III | 23. Children Garden |
| 11. Mechanical Engineering Building II | 24. Building of Mathematics |
| 12. Mechanical Engineering Building III | 25. Building of Physics |
| 13. Student Canteen | 26. Interdisciplinary Complex |

Conference Floor Plan



S - Secretariat

AR- Administration Room

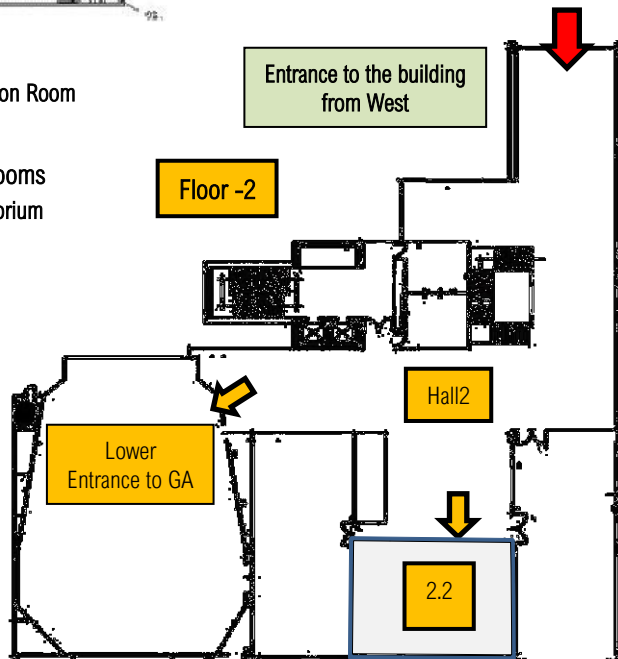
Presentation Rooms

GA - Main Auditorium

VA1

VA2

2.2



How to find a specific presentation in the programme

Go to the Authors Index, find the name of the participant and you will see the information about the presentation id, MS/TP, presentation room, day and time.

How to find the presentation room

Consult the Conference Floor Plan on page 7.

Where to check your emails

You will be able to access wireless network and thus be able to check emails on your notebook.

Wireless Internet Access

Step 1: From available wireless networks select the Guest network and press connect.

Step 2: Open your browser. You should see the following screen. If not, go to <https://wifi.tecnico.ulisboa.pt/>

Step 3: Press the blue button “Ligar”

Step 4: Enter the credentials

Account name: **VETOMAC-XIV**

Password: **rcj4Hd**

Step 5: Enjoy



Where to upload your presentation

It is the participants' responsibility to upload the presentation in the presentation room before their session begins. Each room will be equipped with a desktop computer. In each presentation room a conference staff member will be there to assist you. Kindly note that you will not be allowed to use your own notebook for the presentation.

How to submit the paper to a special issue

Submissions to special issues will only be possible after the Conference is over. Prospective authors will be encouraged to improve, extend and revise their papers by taking into account discussions during the event. Prospective authors should complete these revisions within two months after the conference. Kindly contact the person responsible for a specific issue (listed below) for more details.

- **Journal of Vibration Engineering & Technologies (JVET)**

Zuzana Dimitrovová (zdim@fct.unl.pt)

- **International Journal of Nonlinear Dynamics and Control (IJNDC)**

José Manoel Balthazar (jmbaltha@gmail.com, jmbaltha@ita.br)

Social Programme

Important: Please do not forget to bring your Tickets for Welcome drink and/or Banquet.

Welcome Drink: 10 September, 18h00-20h30

Welcome Drink will be held on 10 September in Museum Gardens of the city of Lisbon (Jardins do Museu de Lisboa – Palácio Pimenta) adjacent to the City Museum. Besides light refreshment, the participants may enjoy walking through the garden. This renovated garden area in Lisbon features larger than life size ceramic replicas of the animal kingdom inspired by Portuguese caricaturist and ceramist Rafael Bordallo Pinheiro. The 1200 works, including animals and other natural elements that decorate the branches, fountains and walls of Pimenta Palace, where Museu da Cidade is housed, were created at the Caldas da Rainha Factory and displayed by Portuguese fine artist Joana Vasconcelos. This renovation project by Lisboa City Council has a twofold purpose: the promotion of the Museu da Cidade, now more attractive than ever for visitors, and the work of Rafael Bordallo Pinheiro, awaiting discovery by the general public at this leisure and exhibit garden.

Information on Museu da Cidade:

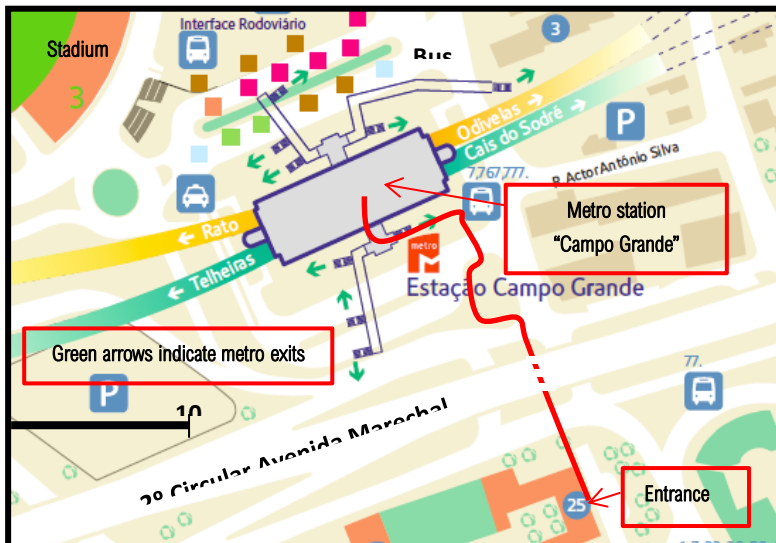
The compelling Museu da Cidade tells the story of Lisbon's long history through prehistoric, Roman, Visigothic, Moorish, and medieval remains. It is located in the 18th century Pimenta Palace, built as a gift for King Joao V's mistress. Highlights include an enormous model of pre-earthquake Lisbon, maps and prints from before and after the quake, and tile panels of city scenes. Engravings of the Inquisition and of Catherine of Braganca departing from Lisbon to marry England's Charles II may also be a center of attraction. There is also a lovely courtyard with peacocks wandering around.



Transportation.

Use your ticket for more information.

It will take you 30 minutes to get there by metro. Exit the station Campo Grande in direction apposite to the Stadium. Cross the street (under the freeway) walk 300 m and find the Museu da Cidade just on your right side.



Conference Banquet: 12 September, 19h00-23h00

The Conference Banquet will be held on 12 September at

Casa do Alentejo

Rua das Portas de Santo Antão, 58

located in the city centre about 30m from the metro station "Restauradores".

Transportation.

Use your ticket for more information.

By Metro (about 30 min from IST):

Exit at Restauradores Metro Station (blue line), Follow the exit "Praça dos Restauradores/Praça D. Pedro IV (Rossio)" and then "Praça dos Restauradores/Rua Jardim de Regedor".

Follow the street for less than 100m and find the Restaurant just in front of you.



Scientific Programme

The Programme consists of 6 Plenary lectures (50/10min), around 156 regular presentations (15/5min) and more than 20 poster presentations. Presentations are grouped in Session Blocks according to 13 Mini-Symposia and 13 General Conference Topics. There will be almost 200 presentations in all from presenters of almost 40 countries.

List of Mini-Symposia

- **BD: Bridge Dynamics**
Izabela J. Drygała
- **DS: Dynamic Stability, Deterministic, Chaotic and Random Post-Critical States**
Jiří Náprstek
- **EH: Energy Harvesting from Ambient Mechanical Oscillations**
Grzegorz Litak, Daniil Yurchenko
- **FV: Lessons in Floor Vibrations: New Design and Retrofit**
Erin Kelly, Melissa W.Y. Wong, Elisabeth Malsch, Marguerite Pinto
- **ML: Vibration of Solids and Structures under Moving Loads**
Piotr Koziol, Zuzana Dimitrovová
- **NC: Nonlinear Dynamics and Control of Engineering Systems**
Marian Wiercigroch, Marcin Kapitaniak, Vahid Vaziri
- **ND: Nonlinear Dynamics, Chaos and Control of Elastic Structures**
José M. Balthazar, Paulo B. Gonçalves, Pedro L. Ribeiro
- **RM: Sustainable Railway Maintenance**
Simona Fontul, Madalena Barroso, Paula Couto
- **RV: Road and Railway Noise and Vibrations: Numerical Modeling and Mitigation**
Paulo A. Mendes, Luís Godinho, Pedro A. Costa
- **SM: Structural Modifications: Modelling Predictions and Experimental Assessment**
Tiago Silva, Marta Carvalho, António Urgueira, Cristinel Mares
- **VE: Simulation and/or Virtual Experiments for Vehicle Vibro-Acoustic Response**
Miguel Matos Neves
- **VM: Vibration Evaluation, Control and Mitigation on Civil Engineering Structures**
Maria J.F. Silva, Hugo Rodrigues
- **VS: Vibration Problems in Strongly Nonlinear Mechanical Dissipative Systems**
Alexey A. Kireenkov, Sergey I. Zhavoronok

List of General Conference Topics

- **TP1: Non-linear vibrations**
- **TP2: Fluid structure interaction**
- **TP3: Vibration in energy and power systems**
- **TP4: Machinery and structural dynamics**
- **TP5: Rotor dynamics**
- **TP6: Condition monitoring, tip-timing, experimental techniques**
- **TP7: Composites and nano-structures**
- **TP8: Microturbines**
- **TP9: Vehicle dynamics**
- **TP10: Vibration and waves**
- **TP11: MEMS, smart structures and systems**
- **TP12: Structural health monitoring**
- **TP13: Wave propagation**

Invited Lectures

This world is full of vibrations

J.S. Rao (will be delivered by **Romuald Rzakowski***)

Active vibration suppression: Nonlinearity and aeroelastic problems

John E Mottershead*

Complex dynamics of drill-string: Theory and experiments

Marian Wiercigroch*, K. Nandakumar, M. Kapitaniak and V. Vaziri

Projection methods for stochastic structural dynamics

Sondipon Adhikari*, S.E. Pryse and A. Kundu

Vibration based diagnostics and prognostics of defects in rotating machinery

C. Nataraj*

Vibration: An excellent plant maintenance tool

Jyoti K. Sinha*

Presenting author is designated by *mark, all authors of invited, regular and poster presentations are included in Authors' Index.

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- **Abdeddaim, Mahdi**
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- **Adhikari, Sondipon**
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- **Adri, Ahmed**
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▪ **Avila, Suzana M.**

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▪ **Batizi, Viktoria**

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▪ **Bauer, Michael**

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▪ **Cao, Junyi**

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▪ **Castanheira-Pinto, Alexandre**

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- **David-West, Opukuro**
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- **de Almeida, Marconi**
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- **de Luca, Antonio**
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- **Falborski, Tomasz**

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- **Falcão Silva, Maria João**

23: RM, VA2 Tues. 16:20-16:40

117: RM, VA2 Tues. 11:00-11:20

118: RM, VA2 Tues. 11:20-11:40

155: RM, VA2 Tues. 16:40-17:00

275: RM, VA2 Tues. 11:40-12:00

- **Faria, Albert Willian**

49: TP7, VA1 Wed. 16:40-17:00

- **Fedorov, Yuri**

224: poster

- **Fedulov, Fedor**

17: EH, VA1 Mon. 16:00-16:20

- **Fetisov, Leonid**

17: EH, VA1 Mon. 16:00-16:20

- **Fiebig, Wieslaw**

137: TP4, 2.2 Wed. 10:20-10:40

- **Firicel, Catalin**

207: poster

- **Fischer, Cyril**

3: DS, VA1 Tues. 10:20-10:40

- **Fontul, Simona**

12: RM, VA2 Tues. 10:20-10:40

23: RM, VA2 Tues. 16:20-16:40

153: RM, VA2 Tues. 17:20-17:40

154: RM, VA2 Tues. 17:00-17:20

155: RM, VA2 Tues. 16:40-17:00

200: RM, VA2 Tues. 10:40-11:00

275: RM, VA2 Tues. 11:40-12:00

- **Friswell, Michael**

249: EH, VA1 Tues. 14:30-14:50

- **Fu, Qiuju**

37: poster

- **Gangsar, Purushottam**

191: ND, GA Thur. 14:50-15:10

- **Garcia, Cristobal**

150: TP12, VA1 Thur. 16:40-17:00

151: TP7, VA1 Wed. 17:00-17:20

- **Garg, Anshul**

237: NC, GA Tues. 14:50-15:10

- **Gaul, Lothar**

82: TP5, 2.2 Tues. 15:10-15:30

- **Gentile, Carmelo**

139: TP12, VA1 Thur. 16:20-16:40

144: TP12, VA1 Tues. 11:40-12:00

- **Georgiadis, Anthimos**

244: SM, VA1 Wed. 16:20-16:40

- **Girao de Moraes, Marcus Vinicius**

128: NC, GA Tues. 16:20-16:40

183: VM, VA2 Thur. 11:00-11:20

185: VE, VA1 Thur. 13:30-13:50

- **Godinho, Luis**

181: RV, VA2 Wed. 10:20-10:40

- **Gong, Xiaoyun**

244: SM, VA1 Wed. 16:20-16:40

- **Goto, Hiroki**

218: RV, VA2 Wed. 11:40-12:00

- **Grabowski, Dailhane B.**

61: NC, GA Tues. 14:30-14:50

- **Gregorczyk, Magdalena**

179: ND, GA Wed. 16:40-17:00

- **Gryshko, Ihor**

127: ND, GA Wed. 11:00-11:20

- **Grzesica, Dariusz**

80: poster

268: ML, VA2 Thur. 16:20-16:40

- **Gubaidullin, Damir Anvarovich**

68: NC, GA Tues. 17:20-17:40

167: poster

201: poster

224: poster

- **Gubaidullina, Dilya**

224: poster

G

- **Gafiyatov, Ramil N.**

201: poster

- **Gali, Sai Vishal Reddy**

250: NC, GA Thur. 10:40-11:00

H

- **Hadas, Zdenek**
105: EH, VA1 Mon. 16:40-17:00
106: TP4, 2.2 Wed. 10:40-11:00
107: EH, VA1 Mon. 17:00-17:20
109: EH, VA1 Tues. 16:20-16:40
- **Han, Mengmeng**
27: ML, VA2 Thur. 16:00-16:20
28: TP2, 2.2 Tues. 16:00-16:20
- **Harata, Yuji**
77: TP5, 2.2 Tues. 14:30-14:50
- **Haritos, George**
50: SM, VA1 Wed. 11:20-11:40
- **Heinrich, Christoph R.**
25: TP5, 2.2 Tues. 10:40-11:00
- **Hossain, Ismail**
95: TP3, 2.2 Tues. 17:20-17:40
- **Hou, Mengfan**
5: VS, VA1 Thur. 14:30-14:50
- **Hwang, Jaihyuk**
269: ND, GA Thur. 14:10-14:30

I

- **Ikeda, Takashi**
77: TP5, 2.2 Tues. 14:30-14:50
- **Ishida, Yukio**
77: TP5, 2.2 Tues. 14:30-14:50

J

- **Jagadish, Venkatramani**
250: NC, GA Thur. 10:40-11:00
252: EH, VA1 Tues. 16:40-17:00
253: NC, GA Thur. 11:00-11:20
256: EH, VA1 Tues. 17:00-17:20
- **Jankowski, Robert**
8: poster
76: poster
- **Janzen, Frederic C.**
59: NC, GA Tues. 10:20-10:40
60: NC, GA Tues. 10:40-11:00
61: NC, GA Tues. 14:30-14:50
74: EH, VA1 Mon. 16:20-16:40

- **Jaramillo Velasquez, Victor Hugo**
152: ND, GA Thur. 14:30-14:50
- **Jarzębowska, Elżbieta**
162: ND, GA Wed. 11:20-11:40
- **Jasieńko, Jerzy**
132: BD, VA2 Tues. 14:50-15:10
- **Jin, Guanghu**
35: poster
44: poster
- **Jonnalagadda, Srinivas**
235: VM, VA2 Thur. 13:50-14:10

K

- **Kalita, Bhaben**
231: NC, GA Thur. 16:20-16:40
- **Kamalutdinov, Airat**
143: ML, VA2 Mon. 17:20-17:40
- **Kamble, Dinesh**
232: ND, GA Wed. 17:20-17:40
- **Kanje, Luis**
23: RM, VA2 Tues. 16:20-16:40
- **Kapitaniak, Marcin**
245: NC, GA Tues. 16:00-16:20
246: NC, GA Thur. 16:40-17:00
305: INV, GA Tues. 13:30-14:30
- **Kehl, Gerhard**
52: NC, GA Tues. 11:20-11:40
- **Kelly, Erin**
259: FV, VA2 Thur. 14:30-14:50
- **Keste, Appasaheb**
202: TP3, 2.2 Tues. 17:00-17:20
- **Kim, Jong-Hyuk**
236: ND, GA Thur. 15:10-15:30
- **Kim, Sitae**
34: TP5, 2.2 Tues. 11:00-11:20
- **Kireenkov, Alexey**
271: VS, VA1 Thur. 15:10-15:30
272: VS, VA1 Thur. 14:50-15:10
- **Kłosak, Andrzej**
219: FV, VA1 Wed. 17:20-17:40
- **Koroishi, Edson Hideki**
18: TP5, 2.2 Tues. 10:20-10:40
49: TP7, VA1 Wed. 16:40-17:00
- **Kovalov, Vasyil**
127: ND, GA Wed. 11:00-11:20

- **Kowalska-Koczwara, Alicja**
219: FV, VA1 Wed. 17:20-17:40
- **Kozioł, Piotr**
266: ML, VA2 Wed. 17:00-17:20
267: ML, VA2 Mon. 16:40-17:00
268: ML, VA2 Thur. 16:20-16:40
- **Kożuch, Barbara**
254: RV, VA2 Wed. 11:00-11:20
- **Krüger, Mark**
129: RV, VA2 Wed. 11:20-11:40
- **Ksica, Filip**
106: TP4, 2.2 Wed. 10:40-11:00
- **Kubitz, Leszek**
67: ND, GA Mon. 17:00-17:20
- **Kudła, Dariusz**
266: ML, VA2 Wed. 17:00-17:20
- **Kühhorn, Arnold**
25: TP5, 2.2 Tues. 10:40-11:00
- **Kundu, A.**
304: INV, GA Wed. 9:00-10:00
- **Kurushina, Victoria**
281: NC, GA Tues. 16:40-17:00
- **Kuzmina, Lyudmila K.**
45: TP3, 2.2 Mon. 17:00-17:20
- **Kuznechikov, Alexander**
238: TP4, 2.2 Wed. 11:40-12:00
- **Kwiecień, Arkadiusz**
76: poster

L

- **Lampreia, Suzana**
170: ND, GA Wed. 16:20-16:40
- **Lanca, António**
200: RM, VA2 Tues. 10:40-11:00
- **Langone Silva, Anderson**
87: ND, GA Mon. 17:20-17:40
166: ND, GA Wed. 16:00-16:20
- **Lara-Molina, Fabian Andres**
18: TP5, 2.2 Tues. 10:20-10:40
49: TP7, VA1 Wed. 16:40-17:00
- **Lasowicz, Natalia**
76: poster
- **Lazarus, Arnaud**
104: ND, GA Wed. 10:40-11:00

- **Leng, Sheng**
24: poster
- **Lentz, Lukas**
130: EH, VA1 Tues. 14:50-15:10
- **Levitskiy, Dmitry**
238: TP4, 2.2 Wed. 11:40-12:00
- **Li, Hongkun**
5: VS, VA1 Thur. 14:30-14:50
- **Li, Shunming**
225: TP4, 2.2 Wed. 11:20-11:40
226: TP4, 2.2 Wed. 16:40-17:00
- **Li, Xianglian**
225: TP4, 2.2 Wed. 11:20-11:40
226: TP4, 2.2 Wed. 16:40-17:00
- **Liang, Ruijun**
262: SM, VA1 Wed. 16:00-16:20
- **Liivapuu, Olga**
209: TP4, 2.2 Wed. 11:00-11:20
- **Likhachev, Dmitry**
64: SM, VA1 Wed. 10:40-11:00
- **Litak, Grzegorz**
74: EH, VA1 Mon. 16:20-16:40
84: EH, VA1 Mon. 17:20-17:40
172: EH, VA1 Tues. 16:00-16:20
194: EH, VA1 Tues. 15:10-15:30
- **Liu, Jin-Fan**
129: RV, VA2 Wed. 11:20-11:40
- **Liu, Zhihong**
276: poster
- **Lobato, Thiago**
134: poster
- **Lobo, Vitor**
170: ND, GA Wed. 16:20-16:40
- **Lopushanski, Mariana**
175: TP2, 2.2 Tues. 16:20-16:40
177: DS, VA1 Thur. 11:40-12:00
- **Lozina, Zeljan**
86: SM, VA1 Wed. 11:00-11:20
111: ML, VA2 Wed. 16:40-17:00
- **Lu, Fengxia**
37: poster
44: poster
- **Lu, Guangqing**
276: poster

- **Lu, Tao**
223: ML, VA2 Mon. 16:00-16:20
239: ND, GA Thur. 13:50-14:10
- **Luhovskyi, Oleksandr**
127: ND, GA Wed. 11:00-11:20
- **Luwe, Kenisuomo C.**
240: TP12, 2.2 Wed. 16:00-16:20

M

- **Maiozzi, Roberto**
280: TP11, 2.2 Mon. 16:20-16:40
- **Malaji, Pradeep**
249: EH, VA1 Tues. 14:30-14:50
252: EH, VA1 Tues. 16:40-17:00
- **Malik, Muhammad**
213: poster
214: poster
- **Malsch, Elisabeth**
259: FV, VA2 Thur. 14:30-14:50
260: FV, VA2 Thur. 14:50-15:10
- **Manea, Ion**
207: poster
- **Mani, Dharanee Dharan**
256: EH, VA1 Tues. 17:00-17:20
- **Mansur, Webe**
85: poster
- **Marciniak, Lubomir**
30: poster
- **Marecos, Vânia**
154: RM, VA2 Tues. 17:00-17:20
- **Mares, Cristinel**
266: ML, VA2 Wed. 17:00-17:20
- **Marques, Ana Margarida**
153: RM, VA2 Tues. 17:20-17:40
- **Marrongelli, Gabriele**
139: TP12, VA1 Thur. 16:20-16:40
144: TP12, VA1 Tues. 11:40-12:00
- **Matache, Mihai Gabriel**
207: poster
- **Matsuzaki, Kenichiro**
102: RV, VA2 Wed. 16:20-16:40
- **Maziarz, Michal**
67: ND, GA Mon. 17:00-17:20
- **Meier, Nicolas**
244: SM, VA1 Wed. 16:20-16:40

- **Melcer, Jozef**
9: RV, VA2 Wed. 10:40-11:00
- **Melo, Matheus Alves**
83: NC, GA Thur. 10:20-10:40
- **Mereles, Arthur**
87: ND, GA Mon. 17:20-17:40
166: ND, GA Wed. 16:00-16:20
- **Mesquita, Alexandre**
134: poster
- **Metrikine, Andrei**
239: ND, GA Thur. 13:50-14:10
- **Min, Tao**
24: poster
- **Miyazawa, Yugo**
77: TP5, 2.2 Tues. 14:30-14:50
- **Miyazu, Yuji**
230: VM, VA2 Thur. 11:20-11:40
- **Molina, José Luis**
20: VM, VA2 Thur. 10:20-10:40
21: VM, VA2 Thur. 13:30-13:50
- **Montalvao, Diogo**
50: SM, VA1 Wed. 11:20-11:40
- **Moreira Teodoro da Silva, Agnaldo A.**
185: VE, VA1 Thur. 13:30-13:50
- **Moreno Ramirez, Ciro**
278: VE, VA1 Thur. 13:50-14:10
- **Mori, Takuro**
230: VM, VA2 Thur. 11:20-11:40
- **Motta, Jéssica**
242: VM, VA2 Thur. 14:10-14:30
- **Mottershead, John E.**
302: INV, GA Tues. 9:00-10:00
- **Mutra, Rajeshkhara Reddy**
235: VM, VA2 Thur. 13:50-14:10

N

- **Nabarrete, Airton**
197: ND, GA Mon. 16:00-16:20
- **Nakae, Takashi**
102: RV, VA2 Wed. 16:20-16:40
218: RV, VA2 Wed. 11:40-12:00
- **Nandakumar, K.**
305: INV, GA Tues. 13:30-14:30
- **Naprstek, Jiri**
3: DS, VA1 Tues. 10:20-10:40

- **Nataraj, C.**
303: INV, GA Wed. 13:30-14:30
- **Neves, Miguel Matos**
160: VE, VA1 Thur. 14:10-14:30
- **Nikiforov, Anatolii**
167: poster
- **Noll, Max-Uwe**
130: EH, VA1 Tues. 14:50-15:10
- **Novikov, Alexander**
147: poster
- **Novikov, Ivan**
147: poster
- **Nuriev, Artem**
143: ML, VA2 Mon. 17:20-17:40
- **Nushtaev, Dmitry**
271: VS, VA1 Thur. 15:10-15:30

O

- **Oliveira, Clivaldo**
87: ND, GA Mon. 17:20-17:40
166: ND, GA Wed. 16:00-16:20
- **Olt, Jüri**
209: TP4, 2.2 Wed. 11:00-11:20
- **Orbolato, Leandro**
58: ND, GA Mon. 16:40-17:00
- **Ottewill, James**
152: ND, GA Thur. 14:30-14:50
- **Ouakad, Hassen**
208: TP5, 2.2 Tues. 11:40-12:00

P

- **Pachla, Filip**
219: FV, VA1 Wed. 17:20-17:40
254: RV, VA2 Wed. 11:00-11:20
- **Pádua, Eduardo**
58: ND, GA Mon. 16:40-17:00
- **Paixão, André**
153: RM, VA2 Tues. 17:20-17:40
- **Pan, Ganyuan**
225: TP4, 2.2 Wed. 11:20-11:40
- **Panfilova, Alla**
70: poster
- **Pantak, Marek**
178: BD, VA2 Tues. 15:10-15:30

- **Paramasivam, Ashwad Raaj**
252: EH, VA1 Tues. 16:40-17:00
- **Park, Jung-Sun**
236: ND, GA Thur. 15:10-15:30
- **Pavlov, Peter**
173: NC, GA Thur. 16:00-16:20
- **Pavlovskaja, Ekaterina**
281: NC, GA Tues. 16:40-17:00
- **Pereira, João**
228: SM, VA1 Wed. 10:20-10:40
- **Pereirinha, Antônio**
155: RM, VA2 Tues. 16:40-17:00
- **Pešek, Luděk**
19: TP2, 2.2 Mon. 16:40-17:00
- **Petrov, Alexander**
135: DS, VA1 Thur. 11:20-11:40
159: DS, VA1 Thur. 10:20-10:40
175: TP2, 2.2 Tues. 16:20-16:40
176: NC, GA Thur. 11:40-12:00
177: DS, VA1 Thur. 11:40-12:00
- **Piazzaroli Finotti, Rafaelle**
139: TP12, VA1 Thur. 16:20-16:40
- **Piechowski, Leszek**
67: ND, GA Mon. 17:00-17:20
- **Pilecki, Rafał**
267: ML, VA2 Mon. 16:40-17:00
- **Pinto, Marguerite**
259: FV, VA2 Thur. 14:30-14:50
260: FV, VA2 Thur. 14:50-15:10
- **Pires, Diogo**
12: RM, VA2 Tues. 10:20-10:40
- **Pluymers, Bert**
123: TP12, VA1 Thur. 16:00-16:20
- **Prasad, Chandra Shekhar**
19: TP2, 2.2 Mon. 16:40-17:00
- **Prenta, Gabriel**
207: poster
- **Pryse, S.E.**
304: INV, GA Wed. 9:00-10:00
- **Pyeon, Bong-Do**
236: ND, GA Thur. 15:10-15:30

Q

- **Qian, Weiwei**
226: TP4, 2.2 Wed. 16:40-17:00

R

- **Ramachandran, Magu Raam Prasaad**

253: NC, GA Thur. 11:00-11:20

- **Rao, J.S.**

301: INV, GA Mon. 14:30-15:30

- **Rathna Prasad, Sagi**

210: TP5, 2.2 Tues. 11:20-11:40

- **Ren, Wei**

35: poster

- **Repinaldo, Joana P.**

18: TP5, 2.2 Tues. 10:20-10:40

- **Requeijo, José**

170: ND, GA Wed. 16:20-16:40

- **Rho, Honggi**

269: ND, GA Thur. 14:10-14:30

- **Rho, Jin-Ho**

236: ND, GA Thur. 15:10-15:30

269: ND, GA Thur. 14:10-14:30

- **Ribeiro, Pedro**

251: ND, GA Thur. 13:30-13:50

- **Rifai, Said**

6: NC, GA Tues. 11:00-11:20

81: NC, GA Tues. 15:10-15:30

- **Rocha, Rodrigo T.**

59: NC, GA Tues. 10:20-10:40

60: NC, GA Tues. 10:40-11:00

61: NC, GA Tues. 14:30-14:50

74: EH, VA1 Mon. 16:20-16:40

166: ND, GA Wed. 16:00-16:20

- **Rodgers, Euan C.**

172: EH, VA1 Tues. 16:00-16:20

- **Rossi, Andrea**

280: TP11, 2.2 Mon. 16:20-16:40

- **Rubes, Ondrej**

105: EH, VA1 Mon. 16:40-17:00

109: EH, VA1 Tues. 16:20-16:40

- **Ruiz-Carcel, Cristobal**

152: ND, GA Thur. 14:30-14:50

- **Rumyantseva, Valentina**

69: DS, VA1 Thur. 11:00-11:20

135: DS, VA1 Thur. 11:20-11:40

- **Rysak, Andrzej**

172: EH, VA1 Tues. 16:00-16:20

179: ND, GA Wed. 16:40-17:00

- **Ryu, Takahiro**

102: RV, VA2 Wed. 16:20-16:40

218: RV, VA2 Wed. 11:40-12:00

- **Rzadkowski, Romuald**

67: ND, GA Mon. 17:00-17:20

S

- **Sadri, Mehran**

223: ML, VA2 Mon. 16:00-16:20

- **Saito, Yusuke**

91: poster

92: EH, VA1 Tues. 17:20-17:40

- **Salvado, Filipa**

117: RM, VA2 Tues. 11:00-11:20

118: RM, VA2 Tues. 11:20-11:40

- **Sankar, Balaji**

217: TP3, 2.2 Tues. 16:40-17:00

- **Santos, Tito**

242: VM, VA2 Thur. 14:10-14:30

- **Sarje, Suhas**

205: ND, GA Wed. 17:00-17:20

- **Sarkar, Abhijit**

136: DS, VA1 Tues. 10:40-11:00

- **Sato, Daisuke**

218: RV, VA2 Wed. 11:40-12:00

- **Saunders, Clinton F. W.**

78: ML, VA2 Mon. 17:00-17:20

- **Sawada, Tatsuo**

91: poster

92: EH, VA1 Tues. 17:20-17:40

- **Sciuto, Salvatore Andrea**

280: TP11, 2.2 Mon. 16:20-16:40

- **Scorza, Andrea**

280: TP11, 2.2 Mon. 16:20-16:40

- **Sebesan, Ioan**

207: poster

- **Sedlar, Damir**

86: SM, VA1 Wed. 11:00-11:20

111: ML, VA2 Wed. 16:40-17:00

- **Sekhar, A. Seshadri**

210: TP5, 2 Tues. 11:20-11:40

212: TP5, 2.2 Tues. 14:50-15:10

217: TP3, 2.2 Tues. 16:40-17:00

- **Shakya, Piyush**

63: TP12, 2.2 Wed. 16:20-16:40

- **Shavin, Mikhail**
265: NC, GA Thur. 11:20-11:40
- **Shcheklein, Sergei E.**
95: TP3, 2.2 Tues. 17:20-17:40
- **Shevtsova, Anastasia**
147: poster
- **Shin, Gs**
89: TP4, 2.2 Wed. 17:20-17:40
- **Shkundin, Semyon**
69: DS, VA1 Thur. 11:00-11:20
159: DS, VA1 Thur. 10:20-10:40
- **Shzu, Maura**
183: VM, VA2 Thur. 11:00-11:20
- **Silva, Roger**
134: poster
- **Silva, Tiago**
228: SM, VA1 Wed. 10:20-10:40
- **Singh, Abhishek Kumar**
229: ML, VA2 Wed. 17:20-17:40
- **Sinha, Jyoti K.**
240: TP12, 2.2 Wed. 16:00-16:20
279: poster
- 306: INV, GA Thur. 9:00-10:00
- **Skoblar, Ante**
163: ND, GA Wed. 11:40-12:00
- **Smilek, Jan**
105: EH, VA1 Mon. 16:40-17:00
107: EH, VA1 Mon. 17:00-17:20
- **Soares, Delfim**
85: poster
- **Sofiste, Tales**
85: poster
- **Solla, Mercedes**
154: RM, VA2 Tues. 17:00-17:20
- **Soumendu, Jana**
217: TP3, 2.2 Tues. 16:40-17:00
- **Srikanth, P.**
212: TP5, 2.2 Tues. 14:50-15:10
- **Stachiv, Ivo**
62: TP11, 2.2 Mon. 17:20-17:40
- **Starr, Andrew**
152: ND, GA Thur. 14:30-14:50
- **Steenbergen, Michaël**
223: ML, VA2 Mon. 16:00-16:20
- **Štimac Rončević, Goranka**
163: ND, GA Wed. 11:40-12:00

- **Stryczek, Jarosław**
30: poster
127: ND, GA Wed. 11:00-11:20
- **Stypuła, Krzysztof**
219: FV, VA1 Wed. 17:20-17:40
- **Su, Wei-Chih**
7: TP4, 2.2 Wed. 17:00-17:20
- **Sun, Mingjie**
226: TP4, 2.2 Wed. 16:40-17:00
- **Sylyvonyuk, Andriy**
199: poster
- **Szczepanik, Ryszard**
67: ND, GA Mon. 17:00-17:20

T

- **Taketa, Erik**
49: TP7, VA1 Wed. 16:40-17:00
- **Takino, Fumiya**
102: RV, VA2 Wed. 16:20-16:40
- **Talebi Amanieh, Hamid Reza**
57: SM, VA1 Wed. 11:40-12:00
- **Tang, Daolong**
5: VS, VA1 Thur. 14:30-14:50
- **Taratorkin, Alexander**
220: NC, GA Tues. 17:00-17:20
- **Taratorkin, Igor**
220: NC, GA Tues. 17:00-17:20
- **Tärgla, Tanel**
209: TP4, 2.2 Wed. 11:00-11:20
- **Tatara, Tadeusz**
219: FV, VA1 Wed. 17:20-17:40
254: RV, VA2 Wed. 11:00-11:20
- **Tebekin, Maksim**
147: poster
- **Tiwari, Rajiv**
191: ND, GA Thur. 14:50-15:10
- **Tkachenko, Liudmila**
68: NC, GA Tues. 17:20-17:40
- **Tomac, Ivan**
86: SM, VA1 Wed. 11:00-11:20
111: ML, VA2 Wed. 16:40-17:00
- **Tomas-Rodriguez, Maria**
278: VE, VA1 Thur. 13:50-14:10
- **Tran, Minh Thi**
27: ML, VA2 Thur. 16:00-16:20

- **Trendafilova, Irina**
150: TP12, VA1 Thur. 16:40-17:00
151: TP7, VA1 Wed. 17:00-17:20
- **Troka, Pawel**
67: ND, GA Mon. 17:00-17:20
- **Tsouvalas, Apostolos**
239: ND, GA Thur. 13:50-14:10
- **Tusset, Angelo M.**
59: NC, GA Tues. 10:20-10:40
60: NC, GA Tues. 10:40-11:00
61: NC, GA Tues. 14:30-14:50
74: EH, VA1 Mon. 16:20-16:40
87: ND, GA Mon. 17:20-17:40
166: ND, GA Wed. 16:00-16:20

U

- **Ueno, Risa**
102: RV, VA2 Wed. 16:20-16:40
- **Urbaś, Andrzej**
162: ND, GA Wed. 11:20-11:40

V

- **Valašková, Veronika**
9: RV, VA2 Wed. 10:40-11:00
75: RV, VA2 Wed. 16:00-16:20
- **Van Zijl, Christof**
78: ML, VA2 Mon. 17:00-17:20
- **Vanovski, Vladimir**
176: NC, GA Thur. 11:40-12:00
- **Varanis, Marcus**
87: ND, GA Mon. 17:20-17:40
166: ND, GA Wed. 16:00-16:20
- **Vasilyeva, Victoria**
147: poster
- **Vatin, Nikolay**
70: poster
- **Vaziri, Vahid**
245: NC, GA Tues. 16:00-16:20
246: NC, GA Thur. 16:40-17:00
305: INV, GA Tues. 13:30-14:30
- **Velkin, Vladimir I.**
95: TP3, 2.2 Tues. 17:20-17:40
- **Verma, Amit Kumar**
229: ML, VA2 Wed. 17:20-17:40

- **Vieira Resende, Diogo**
128: NC, GA Tues. 16:20-16:40
- **Vlcek, Jozef**
75: RV, VA2 Wed. 16:00-16:20
- **Vlkovsky, Martin**
268: ML, VA2 Thur. 16:20-16:40
- **von Wagner, Utz**
130: EH, VA1 Tues. 14:50-15:10
- **Vyas, Nalinaksh S.**
282: TP11, 2.2 Mon. 16:00-16:20

W

- **Wang, Chaoge**
5: VS, VA1 Thur. 14:30-14:50
- **Wang, Wankai**
276: poster
- **Wang, Wenming**
276: poster
- **Wang, Yingjie**
96: ML, VA2 Thur. 16:40-17:00
- **Wang, Zhan**
24: poster
- **Wazowski, Marek**
108: BD, VA2 Tues. 16:00-16:20
- **Weber, Robby**
25: TP5, 2.2 Tues. 10:40-11:00
- **Wesolowsky, Michael**
261: FV, VA2 Thur. 15:10-15:30
- **Wiercigroch, Marian**
245: NC, GA Tues. 16:00-16:20
246: NC, GA Thur. 16:40-17:00
281: NC, GA Tues. 16:40-17:00
305: INV, GA Tues. 13:30-14:30
- **Wong, Melissa**
261: FV, VA2 Thur. 15:10-15:30
- **Wrobel, Jakub**
137: TP4, 2.2 Wed. 10:20-10:40

X

- **Xu, Jianhua**
262: SM, VA1 Wed. 16:00-16:20

Y

- **Yang, Rui**
5: VS, VA1 Thur. 14:30-14:50
- **Yaroshevich, Nikolai**
199: poster
- **Yaroshevich, Tatiana**
199: poster
- **Yau, Jong-Dar**
96: ML, VA2 Thur. 16:40-17:00
- **Ye, Wenhua**
262: SM, VA1 Wed. 16:00-16:20
- **Yi, Chuijie**
276: poster
- **Yokose, Eisaku**
91: poster
- 92: EH, VA1 Tues. 17:20-17:40
- **Yunusa-Kaltungo, Akilu**
240: TP12, 2.2 Wed. 16:00-16:20
- **Yurchenko, Daniil**
84: EH, VA1 Mon. 17:20-17:40

Z

- **Zacchei, Enrico**
20: VM, VA2 Thur. 10:20-10:40
- 21: VM, VA2 Thur. 13:30-13:50
- **Zaitseva, Olga**
143: ML, VA2 Mon. 17:20-17:40
- **Zajac, Bogusław**
219: FV, VA1 Wed. 17:20-17:40

- **Zaripov, Rinat**
68: NC, GA Tues. 17:20-17:40
- **Zhavoronok, Sergey**
271: VS, VA1 Thur. 15:10-15:30
- 272: VS, VA1 Thur. 14:50-15:10
- **Zhou, Shengxi**
194: EH, VA1 Tues. 15:10-15:30
- **Zhu, Rupeng**
35: poster
- 37: poster
- 44: poster
- **Zhuchkova, Marina**
10: DS, VA1 Tues. 11:20-11:40
- **Žigulić, Roberto**
163: ND, GA Wed. 11:40-12:00
- **Zilinskyi, Andrii**
127: ND, GA Wed. 11:00-11:20
- **Zoeteman, Arjen**
223: ML, VA2 Mon. 16:00-16:20
- **Zotov, Sergei**
238: TP4, 2.2 Wed. 11:40-12:00
- **Zou, Xiaozhu**
44: poster
- **Zucchelli, Andrea**
151: TP7, VA1 Wed. 17:00-17:20
- **Zusman, George**
13: ND, GA Mon. 16:20-16:40
- 14: ND, GA Wed. 10:20-10:40

List of Posters

8	Polymeric Bearings as a new base isolation system suitable for mitigating machine-induced vibrations Tomasz Falborski and Robert Jankowski
24	Analysis of AE characteristics of tool wear in drilling CFPR/Ti stacked material Zhan Wang, Sheng Leng, Tao Min and Gang Chen
30	Visualization of flow phenomena in hydraulic throttle valves of plastics Michał Banaś, Piotr Antoniak, Lubomir Marciniak and Jarosław Stryczek
35	Influence of torsional stiffness on load sharing coefficient of a power split drive system G. H. Jin, Wei Ren and Rupeng Zhu
37	Wear depth calculation and influence factor analysis for groove ball bearing Fengxia Lu, Rupeng Zhu and Qiuju Fu

44	Dynamic analysis of planetary gear train system with double moduli and pressure angles Heyun Bao, Guanghu Jin, Fengxia Lu, Rupeng Zhu and Xiaozhu Zou
70	Software simulation of stress-strain state of concrete plates Nikolay Vatin, Alisher Akhatuly and Alla Panfilova
76	The effectiveness of polymer adhesive in reduction of vibrations of structural members Natalia Lasowicz, Arkadiusz Kwicielei and Robert Jankowski
80	Measurement and analysis of truck vibrations during off-road transportation Dariusz Grzesica
85	A locally defined time-marching technique for structural dynamics Delfim Soares, Tales Sofiste and Webe Mansur
91	Frequency response of liquid sloshing in a rotating, laterally oscillating, cylindrical vessel Eisaku Yokose, Yusuke Saito and Tatsuo Sawada
134	Diagnosis of mechanical faults in rotating machinery based on ensemble empirical mode decomposition and support vector machine Thiago Lobato, Roger Silva, Ednelson Costa and Alexandre Mesquita
147	Vibration method of determining the technical state of ball joints Anastasia Shevtsova, Ivan Novikov, Victoria Vasilyeva, Alexander Novikov and Maksim Tebekin
157	Buckling analysis of anti-symmetric cross and angle-ply laminated composite plates Linda Bouyaya and Ahmed Bellaouar
167	Interaction of the acoustic waves with a layer of bubbly liquid with even and uneven space distribution of bubbles Damir Gubaidullin and Anatolii Nikiforov
199	Dynamics of vibrating machines with unbalanced drive considering its elasticity Nikolai Yaroshevich, Andriy Sylyvonyuk and Tatiana Yaroshevich
201	The interaction of acoustic waves with a medium containing a layer of multifractional liquid with bubbles Ramil N. Gafiyatov and Damir Anvarovich Gubaidullin
207	Analytical evaluation of the lifetime of a three-axle bogie frame using the analytical model validated through experimental modal analysis Ion Manea, Ioan Sebesan, Mihai Gabriel Matache, Gabriel Prenta and Catalin Firicel
213	A wave and finite element methodology for structural identification in layered composite structures Rilwan Apalowo, Dimitrios Chronopoulos and Muhammad Malik
214	The influence of temperature on wave scattering on damaged segments within composite structures Rilwan Apalowo, Dimitrios Chronopoulos and Muhammad Malik
224	Propagation of acoustic waves in a liquid with gas bubbles and solid particles Damir Gubaidullin, Dilya Gubaidullina and Yurii Fedorov
276	A new compressive sampling method for designing regional ambient noise monitoring systems Wenming Wang, Zhihong Liu, Wankai Wang, Guangqing Lu and Chuijie Yi
279	Comparison of machine learning models based on time domain and frequency domain features for faults diagnosis in rotating machines Natalia F. Espinoza Sepúlveda and Jyoti K. Sinha

Programme Specific Overview

VETOMAC XIV Programme Specific Overview															
	Monday 10 September				Tuesday 11 September				Wednesday 12 September				Thursday 13 September		
8:30					Secretariat open				Secretariat open				Secretariat open		
9:00					Plenary 1				Plenary 3				Plenary 5		
10:00	Registration				coffee break				coffee break				coffee break		
10:20					NC	DS	RM	TP5	ND	SM	RV	TP4	NC	DS	VM
12:00	Lunch				Lunch				Lunch						
12:30													Lunch		
13:30	Lunch				Plenary 2				Plenary 4				ND	VE	VM
14:00	Opening Ceremony				Poster session				VS		FV				
14:30	Opening Plenary								NC	EH	BD	TP5	VS		FV
15:30	coffee break				coffee break				coffee break				coffee break		
16:00	ND	EH	ML	TP11	NC	EH	RM	TP2	ND	SM	RV	TP4	NC	TP12	ML
17:00													Closing		
17:20													TP3	TP7	ML
17:40															
18:30															
19:00	Welcome Drink (The gardens of Pimenta palace)														
20:30															
23:00															

For better clarity, several colour codes are used, for Mini-Symposia (see also the list in page 12)

NC	ND	DS	EH	ML	SM	VM	RM	RV	BD	FV	VE	VS
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for General topics (see also the list in page 12)

TP2	TP3	TP4	TP5	TP7	TP11	TP12
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for presentation rooms (check the Conference Floor Plan on page 7)

GA	VA1	VA2	2.2
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and for the conference days

Mon.	Tues.	Wed.	Thur.
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For organization purposes TP1 was added to NC, TP6 to ND, TP9 to RV, TP10 and TP13 to DS.

Detailed Programme

Monday, 10th of September

Mon. 10:00-12:30	Registration
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Mon. 12:30-14:00	Lunch
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time	room	GA
	Chairperson(s)	Nuno Maia

Mon. 14:00-14:30	Opening ceremony	
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	Opening Plenary	
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Mon. 14:30-15:30	This World is Full of Vibrations J.S. Rao (delivered by Romuald Rzadkowski*)	
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Mon. 15:30-16:00	coffee break
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time	room		GA
	Chairperson(s)		José M. Balthazar, Pedro L. Ribeiro
Mon. 16:00-16:20	ND	197	Nonlinear behavior of hydrodynamic bearings supporting rotors with a rigid coupling misalignment Airtón Nabarrete* and Vinicius Yoshida de Melo
Mon. 16:20-16:40	ND	13	Condition monitoring of single mechanical seals George Zusman*
Mon. 16:40-17:00	ND	58	On the dynamic buckling of very slender structures due to self-weight Reyolando Brasil*, Leandro Orbolato and Eduardo Pádua
Mon. 17:00-17:20	ND	67	Tip-timing analysis of last stage steam turbine mistuned bladed disc during run-down Romuald Rzadkowski*, Leszek Kubitz, Michal Maziarz, Pawel Troka, Leszek Piechowski and Ryszard Szczepanik
Mon. 17:20-17:40	ND	87	Experimental evaluation of a vibro-impact model for two adjacent shear-building structures Marcus Varanis, Arthur Mereles, Anderson Langone Silva, José M. Balthazar, Angelo Tusset and Clivaldo Oliveira*

time	room		VA1
	Chairperson(s)		Grzegorz Litak
Mon. 16:00-16:20	EH	17	Vibrational energy harvesting device with magnetic tip mass Fedor Fedulov* and Leonid Fetisov
Mon. 16:20-16:40	EH	74	Energy harvesting of a magnetic levitation system controlled by the time-delayed feedback control Rodrigo T. Rocha, Angelo M. Tusset, Grzegorz Litak, Frederic C. Janzen and Jose M. Balthazar*
Mon. 16:40-17:00	EH	105	Energy harvesting from passing train as source of energy for autonomous trackside objects Zdenek Hadas*, Jan Smilek and Ondrej Rubes
Mon. 17:00-17:20	EH	107	Experimental evaluation of Tusi couple based energy harvester for scavenging power from human motion Jan Smilek* and Zdenek Hadas
Mon. 17:20-17:40	EH	84	Spherical pendulum for electromagnetic energy harvesting Grzegorz Litak* and Daniil Yurchenko

time	room		VA2
	Chairperson(s)		Piotr Koziol
Mon. 16:00-16:20	ML	223	Railway track design & degradation Mehran Sadri, Tao Lu*, Arjen Zoeteman and Michaël Steenbergem
Mon. 16:20-16:40	ML	195	Semi-analytical approaches to vibrations induced by moving loads Zuzana Dimitrovová*
Mon. 16:40-17:00	ML	267	Dynamic response of double-beam system with nonlinear viscoelastic layer to moving load Piotr Koziol* and Rafał Pilecki
Mon. 17:00-17:20	ML	78	The detection of wave slamming from vibration measurements on a polar supply and research vessel Anriëtte Bekker*, Christof Van Zijl and Clinton F. W. Saunders
Mon. 17:20-17:40	ML	143	Evaluation of drag and added mass forces acting on vibrating cantilever beams in the air Artem Nuriev*, Airat Kamalutdinov, Olga Zaitseva and Boudkhal Affane

time	room		2.2
	Chairperson(s)		Jyoti K. Sinha
Mon. 16:00-16:20	TP11	282	Deep learning architectures for integrated vehicle health management (IVHM) Nalinaksh S. Vyas*
Mon. 16:20-16:40	TP11	280	Experimental results for active control of multimodal vibrations by optimally placed piezoelectric actuators Andrea Rossi*, Fabio Botta, Roberto Maiozzi, Andrea Scorza and Salvatore Andrea Sciuto
Mon. 16:40-17:00	TP2	19	Analysis of classical flutter in steam turbine blades using reduced order aeroelastic model Chandra Shekhar Prasad* and Luděk Pešek
Mon. 17:00-17:20	TP3	45	Stability theory methods in mechanics problems Lyudmila K. Kuzmina*
Mon. 17:20-17:40	TP11	62	Exploiting lattice softening of Ni2MnGa austenite film in design of contactless high frequency micro-/nanocantilever resonators Ivo Stachiv*

Tuesday, 11th of September

time	room	GA
	Chairperson(s)	Nuno Maia
	Plenary Lecture 1	
Tues. 9:00-10:00	Active Vibration Suppression: Nonlinearity and Aeroelastic Problems John Mottershead	

Tues. 10:00-10:20	coffee break
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time	room		GA
	Chairperson(s)		Marian Wiercigroch, Vahid Vaziri
Tues. 10:20-10:40	NC	59	TM-AFM nonlinear motion control including fractional-order Angelo M. Tusset*, Frederic C. Janzen, Rodrigo T. Rocha and Jose M. Balthazar
Tues. 10:40-11:00	NC	60	Two way shape memory alloy actuator displacement control by applying a sliding modes controller Frederic C. Janzen, Angelo M. Tusset, Rodrigo T. Rocha and Jose M. Balthazar*
Tues. 11:00-11:20	NC	6	Geometrically nonlinear free and forced vibrations of Euler-Bernoulli multi-span beams Hatim Fakhreddine*, Ahmed Adri, Said Rifai and Rhali Benamar
Tues. 11:20-11:40	NC	52	Simulation of structural dynamics with integrated feed drive control to improve stability of metal cutting processes in industrial machinery Gerhard Kehl*
Tues. 11:40-12:00	NC	73	Geometrically nonlinear free and forced vibrations analysis of clamped-clamped functionally graded beams with multi-cracks. Mohcine Chajdi*, Ahmed Adri, Khalid El Bikri and Rhali Benamar

time	room		VA1
	Chairperson(s)		Jiří Náprstek
Tues. 10:20-10:40	DS	3	Singular solutions of a non-holonomic system as limits separating solution groups of particular type Jiri Naprstek* and Cyril Fischer
Tues. 10:40-11:00	DS	136	Free vibrations of circular curved beams Ajinkya Baxy* and Abhijit Sarkar
Tues. 11:00-11:20	DS	31	Special discontinuities in models of continuum mechanics Anna Chugaynova*
Tues. 11:20-11:40	DS	10	The reflection of flexural-gravity waves from a junction of a floating plate and a vertical slope of a hydraulic structure Marina Zhuchkova*
Tues. 11:40-12:00	TP12	144	A new automated procedure of modal identification in operational conditions Gabriele Marrongelli* and Carmelo Gentile

time	room		VA2
	Chairperson(s)		Paula Couto, Simona Fontul
Tues. 10:20-10:40	RM	12	The study of the interlock of ballast in triaxial geogrids Diogo Pires*, Madalena Barroso, Simona Fontul and Zuzana Dimitrovová
Tues. 10:40-11:00	RM	200	Numerical analysis of geogrid contribution to railway track reinforcement António Lanca*, Zuzana Dimitrovová, Madalena Barroso and Simona Fontul
Tues. 11:00-11:20	RM	117	Railway infrastructures sustainable interventions: proposal for a cost-benefit analysis application Paula Couto, Filipa Salvado* and Maria João Falcão Silva
Tues. 11:20-11:40	RM	118	Optimization of railway infrastructures rehabilitation based on multicriteria analysis Paula Couto, Filipa Salvado and Maria João Falcão Silva*
Tues. 11:40-12:00	RM	275	Multi-criteria analysis applied to railway rehabilitation Vasco Caetano*, Paula Couto, Simona Fontul and Maria João Falcão Silva

time	room		2.2
	Chairperson(s)		Lothar Gaul
Tues. 10:20-10:40	TP5	18	Sensitivity analysis of smart rotor under to uncertainties Edson Hideki Koroishi*, Fabian Andres Lara Molina and Joana Pereira Repinaldo
Tues. 10:40-11:00	TP5	25	Modelling and analysis of a high-speed turbine impeller concerning mistuning Robby Weber*, Arnold Kühhorn and Christoph R. Heinrich
Tues. 11:00-11:20	TP5	34	Shooting/continuation based bifurcation analysis of large order nonlinear rotordynamic systems Sitae Kim*
Tues. 11:20-11:40	TP5	210	Identification of shaft fatigue crack through hybrid statistical features Sagi Rathna Prasad and A. Seshadri Sekhar*
Tues. 11:40-12:00	TP5	208	Analysis of the lateral vibrations of an unbalanced Jeffcott rotor Ali Alsaleh* and Hassen Ouakad

Tues. 12:00-13:30	Lunch		
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time	room		GA
	Chairperson(s)		Zuzana Dimitrovová
	Plenary Lecture 2		
Tues. 13:30-14:30	Complex Dynamics of Drill-String: Theory and Experiments Marian Wiercigroch*, K. Nandakumar, M. Kapitaniak, V. Vaziri		

time	room		GA
	Chairperson(s)		Marian Wiercigroch, Marcin Kapitaniak
Tues. 14:30-14:50	NC	61	Time-delayed feedback control applied into a duffing type mems resonator including fractional-order Angelo M. Tusset*, Dailhane B. Grabowski, Frederic C. Janzen, Rodrigo T. Rocha and Jose M. Balthazar
Tues. 14:50-15:10	NC	237	Theoretical and experimental investigation of parametrically excited piezoelectric energy harvester Anshul Garg and Santosha K. Dwivedy*
Tues. 15:10-15:30	NC	81	Nonlinear free and forced vibration of Euler-Bernoulli beams resting on intermediate flexible supports Hatim Fakhreddine*, Ahmed Adri, Said Rifai and Rhali Benamar

time	room		VA1
	Chairperson(s)		Grzegorz Litak
Tues. 14:30-14:50	EH	249	Analysis of pendulums coupled by torsional springs for energy harvesting Pradeep Malaji*, Suresh Doddi, Michael Friswell and Sondipon Adhikari
Tues. 14:50-15:10	EH	130	On the improved modeling of the distributed magnetoelastic forces in a bistable energy harvesting system Max-Uwe Noll*, Lukas Lentz and Utz von Wagner
Tues. 15:10-15:30	EH	194	Performance of broadband tristable energy harvesters Shengxi Zhou, Grzegorz Litak* and Junyi Cao

time	room		VA2
	Chairperson(s)		Izabela Drygała
Tues. 14:30-14:50	BD	119	Dynamic assessment of a cable-stayed footbridge under mainshock-aftershock seismic events with a concrete damage plasticity model Drygała Izabela* and Dulińska Joanna
Tues. 14:50-15:10	BD	132	Seismic performance of a masonry arch viaduct subjected to foreshocks and a mainshock Izabela Drygała, Joanna Dulińska, Łukasz Bednarz* and Jerzy Jasieńko
Tues. 15:10-15:30	BD	178	Dynamic forces with random amplitudes from rhythmic jumps and squats Marek Pantak*

time	room		2.2
	Chairperson(s)		Richard E. Markert
Tues. 14:30-14:50	TP5	77	Parametric resonances of floating wind turbine blades under vertical wave excitation Takashi Ikeda*, Yuji Harata, Yugo Miyazawa and Yukio Ishida
Tues. 14:50-15:10	TP5	212	Fault diagnosis in epicyclic gearbox of wind turbine drive train A. Seshadri Sekhar* and P Srikanth
Tues. 15:10-15:30	TP5	82	FE-BE computation of electromagnetic noise of a permanent-magnetic excited synchronous machine considering dynamic rotor eccentricity Marcel Clappier and Lothar Gaul*

Tues. 15:30-16:00	coffee break		
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time	room		GA
	Chairperson(s)		Marian Wiercigroch, Vahid Vaziri
Tues. 16:00-16:20	NC	245	Helical buckling of thin rods: FE modelling Marcin Kapitaniak*, Vahid Vaziri and Marian Wiercigroch
Tues. 16:20-16:40	NC	128	Experimental study of a passive inverted pendulum control system Diogo Vieira Resende, Marcus V. G. de Moraes and Suzana M. Avila*
Tues. 16:40-17:00	NC	281	Vortex induced vibrations of horizontal pipe in uniform flow Victoria Kurushina, Ekaterina Pavlovskaja* and Marian Wiercigroch
Tues. 17:00-17:20	NC	220	Stability of the dynamic shifting process in the vehicle transmission with the input shaper Alexander Taratorkin*, Victor Derzhanskii and Igor Taratorkin
Tues. 17:20-17:40	NC	68	Non-linear vibrations of gas suspension in tubes with partial filling Damir Gubaidullin*, Rinat Zaripov and Liudmila Tkachenko

time	room		VA1
	Chairperson(s)		Grzegorz Litak
Tues. 16:00-16:20	EH	172	Vibrational tests of a system with two coupled beams and a distributed tip mass Andrzej Rysak*, Euan C. Rodgers and Grzegorz Litak
Tues. 16:20-16:40	EH	109	Verified nonlinear model of piezoelectric energy harvester Ondrej Rubes*, Martin Brablc and Zdenek Hadas
Tues. 16:40-17:00	EH	252	Investigating the role of subcritical and supercritical bifurcations on the energy harvesting potential of a dynamic oscillator subjected to random excitations Ashwad Raaj Paramasivam, Pradeep Malaji and Venkatramani Jagadish*
Tues. 17:00-17:20	EH	256	Acoustic energy harvesting using piezoelectric device from random ambient noise Dharanee Dharan Mani*, Ramesh Gupta Burela and Venkatramani Jagadish
Tues. 17:20-17:40	EH	92	A Bayesian updating procedure for the electromechanical properties of piezoelectric energy harvesters Patricio Peralta*, Rafael Ruiz and Viviana Meruane

time	room		VA2
	Chairperson(s)		Simona Fontul, Paula Couto
Tues. 16:00-16:20	BD	108	Assessment of human-induced vibrations of a cable-stayed footbridge Izabela Drygała, Joanna M. Dulińska and Marek Wazowski*
Tues. 16:20-16:40	RM	23	Application of ProNIC methodology in railway infrastructures construction Luís Kanje, Paula Couto*, Simona Fontul and Maria João Falcão Silva
Tues. 16:40-17:00	RM	155	BIM application to railway monitoring and rehabilitation António Pereirinha, Paula Couto, Simona Fontul* and Maria João Falcão
Tues. 17:00-17:20	RM	154	Transport infrastructures assessment using multiple GPR configurations and FWD Vânia Marecos*, Simona Fontul, Mercedes Solla and Maria De Lurdes Antunes
Tues. 17:20-17:40	RM	153	Ballast fouling evaluation with ground penetrating radar Ana Margarida Marques, Simona Fontul* and André Paixão

time	room		2.2
	Chairperson(s)		Santosha K. Dwivedy
Tues. 16:00-16:20	TP2	28	Hydrodynamic aspects of moving vehicle with sloshing tanks Mengmeng Han*, Jian Dai and Kok Keng Ang
Tues. 16:20-16:40	TP2	175	Ellipsoid movement in ideal or viscous fluid Alexander Petrov and Mariana Lopushanski*
Tues. 16:40-17:00	TP3	217	Vibration characteristics of a thrust plate supported on active magnetic bearing Balaji Sankar, A. Seshadri Sekhar*, Shah Brijeshkumar and Jana Soumendu
Tues. 17:00-17:20	TP3	202	Prediction of flow induced vibrations in vertical turbine pumps using one-way fluid-structure interaction Ravindra Birajdar* and Appasaheb Keste
Tues. 17:20-17:40	TP3	95	Experimental study in reduction of two phase-flow induced vibration Ismail Hossain*, Vladimir I. Velkin and Sergei E. Shcheklein

Wednesday, 12th of September

time	room	GA
	Chairperson(s)	Nuno Maia
	Plenary Lecture 3	
Wed. 9:00-10:00	Projection Methods for Stochastic Structural Dynamics Sondipon Adhikari*, S.E. Pryse, A. Kundu	

Wed. 10:00-10:20	coffee break	
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time	room		GA
	Chairperson(s)		José M. Balthazar, Pedro L. Ribeiro
Wed. 10:20-10:40	ND	14	Smart vibration sensors for machinery condition monitoring and protection George Zusman*
Wed. 10:40-11:00	ND	104	Modal analysis of time-periodic elastic structures through finite element analysis Barend Bentvelsen* and Arnaud Lazarus
Wed. 11:00-11:20	ND	127	Visualization research on the influence of an ultrasonic degassing system on the operation of a hydraulic gear pump Piotr Antoniak*, Jarosław Stryczek, Michał Banaś, Oleksandr Luhovskyi, Ihor Gryshko, Andrii Zilinskyi and Vasyl Kovalov
Wed. 11:20-11:40	ND	162	Vibration of a crane system model equipped with flexible links in the presence of kinematic task-based constraints Elżbieta Jarzębowska*, Andrzej Urbaś and Krzysztof Augustynek
Wed. 11:40-12:00	ND	163	Fault detection based on instantaneous angular speed measurement and variational mode decomposition Sanjin Braut*, Roberto Žigulić, Ante Skoblar and Goranka Štimac Rončević

time	room		VA1
	Chairperson(s)		Tiago Silva
Wed. 10:20-10:40	SM	228	Coupling of structures using frequency response functions Tiago Silva* and João Pereira
Wed. 10:40-11:00	SM	64	Mass-geometric parameters improvement of gearbox by using vibration analysis Viktoria Batizi* and Dmitry Likhachev
Wed. 11:00-11:20	SM	86	An Identification of the unbalanced magnetic pull in generator at excitation and the hydropower machine model validation Zeljko Lozina*, Damir Sedlar and Ivan Tomac
Wed. 11:20-11:40	SM	50	On reducing uncertainty on the elliptical plane modal identification method Diogo Montalvão*, Mihai Dupac, Daerefa-A Amafabia, Opukuro David-West and George Haritos
Wed. 11:40-12:00	SM	57	Investigation of environmental effects on updated finite element model of a solar power plant Pouyan Alimouri* and Hamid Reza Talebi Amanieh

time	room		VA2
	Chairperson(s)		Paulo Amado Mendes
Wed. 10:20-10:40	RV	181	Numerical analysis of the shielding effect provided by periodic elastic scatterers Paulo Amado-Mendes*, Luis Godinho, Carlos Albino, Pedro Alves-Costa and Alexandre Castanheira-Pinto
Wed. 10:40-11:00	RV	9	Vehicle response on kinematic excitation Veronika Valašková* and Jozef Melcer
Wed. 11:00-11:20	RV	254	The vibration induced by the passage of trains at various speeds and their effect on the structural response of buildings – experimental and numerical analysis Barbara Kožuch*, Filip Pachla and Tadeusz Tatara
Wed. 11:20-11:40	RV	129	Parameter identification and design of a frequency, amplitude and preload dependent hydro- and rubbermount bushing model for transient multibody simulations Urs Becker*, Jin-Fan Liu and Mark Krüger
Wed. 11:40-12:00	RV	218	Effect of adding mass to rotor on in-plane squeal in automotive disc brake Takashi Nakae*, Takahiro Ryu, Hiroki Goto and Daisuke Sato

time	room		2.2
	Chairperson(s)		C. Nataraj
Wed. 10:20-10:40	TP4	137	Use of mechanical resonance in impact machines Wieslaw Fiebig and Jakub Wrobel*
Wed. 10:40-11:00	TP4	106	Prediction of position-dependent stability lobes based on reduced virtual model Filip Ksica* and Zdenek Hadas
Wed. 11:00-11:20	TP4	209	Simulation of plastic deformation and destruction in the process of chip formation Tanel Tärkla*, Jüri Olt and Olga Liivapuu
Wed. 11:20-11:40	TP4	225	Noise source identification of tractor and sound insulation of engine hood Shunming Li*, Ganyuan Pan and Xianglian Li
Wed. 11:40-12:00	TP4	238	Oscillations of a statically indeterminate system with a finite number of freedom degrees (the experience of applying mathematical packages in the technical university course of mechanics) Alexander Kuznechikov, Dmitry Levitskiy* and Sergei Zotov

Wed. 12:00-13:30	Lunch
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time	room		GA
	Chairperson(s)		Zuzana Dimitrovová
	Plenary Lecture 4		
Wed. 13:30-14:30	Vibration Based Diagnostics and Prognostics of Defects in Rotating Machinery C. Nataraj		

Wed. 14:30-15:30	Poster session
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Wed. 15:30-16:00	coffee break
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time	room		GA
	Chairperson(s)		Pedro L. Ribeiro, José M. Balthazar
Wed. 16:00-16:20	ND	166	Remarks on an energy harvester model with fractional order damping Clivaldo Oliveira*, Rodrigo Rocha, Angelo Tusset, Jose Manoel Balthazar, Arthur Mereles, Marcus Varanis, Anderson Silva and Sergio David
Wed. 16:20-16:40	ND	170	Diesel engine vibration monitoring based on a statistical model Suzana Lampreia*, José Requeijo and Vitor Lobo
Wed. 16:40-17:00	ND	179	Recurrence analysis of fractional-order Lorenz system Andrzej Rysak and Magdalena Gregorczyk*
Wed. 17:00-17:20	ND	205	Integration of maintenance systems Suhas Sarje*
Wed. 17:20-17:40	ND	232	Prediction of cutting tool vibration and surface roughness in hard turning of AISI52100 steel Nitin Ambhore*, Dinesh Kamble and Satish Chinchaniakar

time	room		VA1
	Chairperson(s)		Tiago Silva, Miguel Neves
Wed. 16:00-16:20	SM	262	Research on thermal-mechanical coupling deformation of the ball screw of machine tool spindle feed system Wenhua Ye*, Jianhua Xu and Ruijun Liang
Wed. 16:20-16:40	SM	244	Vibration analysis based on the spectrum kurtosis for adjustment and monitoring of ball bearing radial clearance Anthimos Georgiadis*, Xiaoyun Gong and Nicolas Meier
Wed. 16:40-17:00	TP7	49	Optimization of parameters of a modal active control in a beam of composite material Camila Albertin Xavier Da Silva, Erik Taketa, Edson Hideki Koroishi*, Fabian Andres Lara Molina and Albert Willian Faria
Wed. 17:00-17:20	TP7	151	Effect of polycaprolactone nanofibers on the vibratory behaviour and the damage resistance of composite laminates Cristobal Garcia*, Irina Trendafilova and Andrea Zucchelli
Wed. 17:20-17:40	FV	219	Proposal of new vibro-acoustic floor Andrzej Klosak, Alicja Kowalska-Koczwara, Filip Pachla*, Krzysztof Stypuła, Tadeusz Tatara and Bogusław Zajac

time	room		VA2
	Chairperson(s)		Paulo A. Mendes, Dariusz Grzesica
Wed. 16:00-16:20	RV	75	Experimental and computational dynamic analysis of the foam concrete as a sub-base layer of the pavement structure Jozef Vlcek, Veronika Valaskova* and Marian Drusa
Wed. 16:20-16:40	RV	102	Fundamental study on countermeasures against subharmonic vibration of order 1/2 in automatic transmissions for cars Fumiya Takino*, Takahiro Ryu, Takashi Nakae, Kenichiro Matsuzaki and Risa Ueno
Wed. 16:40-17:00	ML	111	The dynamic analysis of suspended cable due to a sliding body Damir Sedlar*, Zeljan Lozina and Ivan Tomac
Wed. 17:00-17:20	ML	266	Stochastic load generated by the beam irregularities Piotr Koziol*, Dariusz Kudla and Cristinel Mares
Wed. 17:20-17:40	ML	229	On the propagation of Rayleigh-type waves in an initially stressed heterogeneous transversely isotropic layer resting on yielding foundation. Amit Kumar Verma*, Amares Chattopadhyay and Abhishek Kumar Singh

time	room		2.2
	Chairperson(s)		Sondipon Adhikari
Wed. 16:00-16:20	TP12	240	Data fusion of acceleration and velocity features (dFAVF) approach for fault diagnosis in rotating machines Kenisuomo C Luwei*, Jyoti K Sinha, Akilu Yunusa-Kaltungo and Keri Elbhah
Wed. 16:20-16:40	TP12	63	Comparative study of optimization methods for prognostics of rolling element bearing Dipanand D. Birajdar and Piyush Shakya*
Wed. 16:40-17:00	TP4	226	The vibration and noise reduction design and optimization for timing gear chamber cover of a 4-cylinder diesel engine Xianglian Li*, Mingjie Sun, Weiwei Qian and Shunming Li
Wed. 17:00-17:20	TP4	7	Identification of structures modal-parameter from seismic responses using maximum likelihood estimation of Laplace distribution Wei-Chih Su*
Wed. 17:20-17:40	TP4	89	Seismic response of a dual supported component Gs Shin*

Thursday, 13th of September

time	room		GA
	Chairperson(s)		Nuno Maia
	Plenary Lecture 5		
Thur. 9:00-10:00	Vibration: An Excellent Plant Maintenance Tool Jyoti K. Sinha		

Thur. 10:00-10:20	coffee break		
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time	room		GA
	Chairperson(s)		Marcin Kapitaniak, Vahid Vaziri
Thur. 10:20-10:40	NC	83	Comparative analysis of strategies for a semi-active suspension of a ¼ vehicle Matheus Alves Melo and Suzana Avila*
Thur. 10:40-11:00	NC	250	Identifying route to stall flutter through stochastic bifurcation analysis Rajagopal Vinod Bethi*, Sai Vishal Reddy Gali and Venkatramani Jagadish
Thur. 11:00-11:20	NC	253	Investigating the route to flutter in a pitch-plunge airfoil with freeplay nonlinearity subjected to input flow fluctuations Magu Raam Prasaad Ramachandran* and Venkatramani Jagadish
Thur. 11:20-11:40	NC	265	Design and identification of tilt-motor quadrotor control system Mikhail Shavin*
Thur. 11:40-12:00	NC	176	The estimative criterion of the resonant acoustic break-up of a gas bubble in liquid Vladimir Vanovskyi* and Alexander Petrov

time	room		VA1
	Chairperson(s)		Jiří Náprstek
Thur. 10:20-10:40	DS	159	Calculation of acoustic flow-rate measurements error with the help of Fermat's principle Alexander Petrov* and Semyon Shkundin
Thur. 10:40-11:00	DS	66	A new simple method for determining the sound absorption coefficient Merab Chelidze*
Thur. 11:00-11:20	DS	69	Acoustic devices for breathing investigations Semyon Shkundin* and Valentina Rumyantseva
Thur. 11:20-11:40	DS	135	The acoustic waves propagation in a cylindrical wave-guide with the laminar flow Alexander Petrov and Valentina Rumyantseva*
Thur. 11:40-12:00	DS	177	Study of finite amplitude capillary waves stability Alexander Petrov and Mariana Lopushanski*

time	room		VA2
	Chairperson(s)		Maria João Falcão
Thur. 10:20-10:40	VM	20	Damage estimation on concrete gravity dams through artificial accelerograms Enrico Zacchei* and José Luis Molina
Thur. 10:40-11:00	VM	145	Limitations of a dynamic shear-frame model based in a small-scale experimental steel structure Augusto de Souza Pippi*, Pedro L. Bernardes Júnior, Suzana M. Avila, Marcus V. G. de Moraes and Graciela Doz
Thur. 11:00-11:20	VM	183	A parametric study of a tower controlled by a pendulum tuned mass damper: beam modelling Gino Colherinhas, Maura Shzu*, Suzana Ávila and Marcus Moraes
Thur. 11:20-11:40	VM	230	Identification of vibration properties of a mid-rise wooden building using subspace identification method Yuji Miyazu* and Takuro Mori
Thur. 11:40-12:00	VM	43	Seismic vibration control using a novel inerto-elastic damper Mahdi Abdeddaim*, Arnab Anuj Kasar and Nassim Djedoui

Thur. 12:00-13:30	Lunch	
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time	room		GA
	Chairperson(s)		José M. Balthazar, Pedro L. Ribeiro
Thur. 13:30-13:50	ND	251	Models for free non-linear vibrations of non-local plates with immovable boundaries Pedro Ribeiro* and Tomás R. C. Chuaqui
Thur. 13:50-14:10	ND	239	In-plane vibration of rotating rings using a high order theory Tao Lu*, Apostolos Tsouvalas and Andrei Metrikine
Thur. 14:10-14:30	ND	269	Development of an integrated aeroelastic analysis program using MATLAB GUI Honggi Rho*, Jaesung Bae, Jaihyuk Hwang and Jinho Rho
Thur. 14:30-14:50	ND	152	Vibration analysis under varying operating conditions for rotorcraft gearbox monitoring Cristobal Ruiz Carcel*, Andrew Starr, James Ottewill and Victor Hugo Jaramillo Velasquez
Thur. 14:50-15:10	ND	191	Effect of noise on support vector machine based fault diagnosis of IM using vibration and current signatures Purushottam Gangsar* and Rajiv Tiwari
Thur. 15:10-15:30	ND	236	Study on experimental verification of non-linearity of hinge stiffness simulator Bong-Do Pyeon*, Jong-Hyuk Kim, Jae-Sung Bae, Jin-Ho Rho and Jung-Sun Park

time	room		VA1
	Chairperson(s)		Miguel Neves, Alexey A. Kireenkov
Thur. 13:30-13:50	VE	185	FE sloshing modelling in bidimensional cavity using wave equation Aginaldo Antonio Moreira Teodoro da Silva and Marcus Vinicius Girao de Morais*
Thur. 13:50-14:10	VE	278	Dynamic stability analysis of Girder suspension systems with a comparison with telescopic suspension system Ciro Moreno Ramirez and Maria Tomas-Rodriguez*
Thur. 14:10-14:30	VE	160	Using vibro-acoustic transmissibility to estimate vibro-acoustic responses inside simplified vehicle bodies Miguel Matos Neves*
Thur. 14:30-14:50	VS	5	Weak fault feature extraction of gear based on KVMD and singular value difference spectrum Hongkun Li*, Chaoge Wang, Mengfan Hou, Rui Yang and Daolong Tang
Thur. 14:50-15:10	VS	272	Implementation of analytical models of the anisotropic combined dry friction in problems of pneumatics' dynamics Alexey Kireenkov* and Sergey Zhavoronok
Thur. 15:10-15:30	VS	271	A new approximate model of tyre accounting for both deformed state and dry friction forces in the contact spot on the background of the coupled model Alexey Kireenkov, Dmitry Nushtaev and Sergey Zhavoronok*

time	room		VA2
	Chairperson(s)		Melissa W.Y. Wong, Maria João Falcão
Thur. 13:30-13:50	VM	21	Estimation of optimal area and volume for double arch-dams Enrico Zacchei* and José Luis Molina
Thur. 13:50-14:10	VM	235	Semi-active vibration control of high-speed rotor system with electrorheological bearing fluid Rajeshkhara Reddy Mutra and Srinivas Jonnalagadda*
Thur. 14:10-14:30	VM	242	No spillover partial eigenvalue assignment in second-order linear systems using the Brauer's theorem and dense influence matrices Jéssica Motta, Marconi de Almeida, Tito Santos and Jose Mario Araujo*
Thur. 14:30-14:50	FV	259	Vibration transmission and load paths Francesca Brando, Erin Kelly*, Marguerite Pinto and Elisabeth Malsch
Thur. 14:50-15:10	FV	260	Vibration analysis of footbridges: an overview of the current practice Antonio De Luca, Marguerite Pinto, Mike Bauer and Elisabeth Malsch Presented by Melissa Wong*
Thur. 15:10-15:30	FV	261	Controlling construction-induced vibrations in healthcare facilities Melissa Wong* and Michael Wesolowsky

Thur. 15:30-16:00	coffee break		
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time	room		GA
	Chairperson(s)		Vahid Vaziri, Marcin Kapitaniak
Thur. 16:00-16:20	NC	173	Nonlinear damped vibrations of planar discrete systems – numerical and experimental modelling Peter Pavlov*
Thur. 16:20-16:40	NC	231	Dynamic analysis of a parametrically excited golden Muga silk embedded pneumatic artificial muscle Bhaben Kalita and Santosha K Dwivedy*
Thur. 16:40-17:00	NC	246	Control of stick-slip in drill-strings Vahid Vaziri*, Marcin Kapitaniak and Marian Wiercigroch

time	room		VA1
	Chairperson(s)		Jiří Náprstek
Thur. 16:00-16:20	TP12	123	Non-destructive testing based on vibrations in the low to mid-frequency range Philip Becht*, Elke Deckers, Claus Claeys, Bert Pluymers and Wim Desmet
Thur. 16:20-16:40	TP12	139	An artificial intelligence strategy to detect damage from response measurements: application on an ancient tower Gabriele Marrongelli*, Raffaele Piazaroli Finotti, Carmelo Gentile and Flávio Barbosa
Thur. 16:40-17:00	TP12	150	A self-powered triboelectric velocity sensor for impact detection in composite structures Cristobal Garcia* and Irina Trendafilova

time	room		VA2
	Chairperson(s)		Piotr Koziol
Thur. 16:00-16:20	ML	27	On the sloshing effect in half-filled freight trains during braking Jian Dai*, Mengmeng Han, Kok Keng Ang and Minh Thi Tran
Thur. 16:20-16:40	ML	268	Wavelet based analysis of truck vibrations during off-road transportation Martin Vlkovsky, Piotr Koziol and Dariusz Grzesica*
Thur. 16:40-17:00	ML	96	Dynamic response of a vehicle with flexible car body moving on a ballasted track Yingjie Wang*, Zuzana Dimitrovová and Jong-Dar Yau

time	room		GA
	Chairperson(s)		Nuno Maia
Thur. 17:00-17:20			Closing Ceremony



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