

Ph.D. Workshop

Institute Mihajlo Pupin Volgina 15, Belgrade, Serbia June 17, 2021

ONLINE

Organizing Committee

Heba Mohamed, University of Bonn Nikola Tomašević, Institute Mihajlo Pupin Marko Batić, Institute Mihajlo Pupin

<u>International Doctoral Committee</u>

Valentina Janev, Institute Mihajlo Pupin, Serbia (Chair)

Sanja Vraneš, Institute Mihajlo Pupin, Serbia

Lazar Berbakov, Institute Mihajlo Pupin, Serbia

Emanuel Sallinger, University of Oxford, UK

Anastasia Dimou, imec and Ghent University, Belgium

Diego Collarana, Fraunhofer IAIS, Germany

Maria-Esther Vidal, German National Library of Science and Technology, Leibniz University Hannover, Germany

Jens Lehmann, University of Bonn, Germany

Damien Graux, ADAPT SFI Centre, Trinity College Dublin, Ireland

Hajira Jabeen, CEPLAS - Cluster of Excellence in Plant Sciences. Technische Universität Dresden, Germany

Andrej Čampa, ComSensus, Slovenia

Marcus Keane, National University of Ireland, Galway, Ireland

Dimitar Trajanov, Ss. Cyril and Methodius University, Skopje, North Macedonia

Johannes Stöckl, Austrian Institute of Technology, Austra

Federico Seri, National University of Ireland, Galway, Ireland

Luis Miguel Blanes Restoy, National University of Ireland, Galway, Ireland

Brankica Pažun, School of Engineering Management, Serbia

Neven Vrček, Faculty of Organization and Informatics, University of Zagreb, Croatia

Paulo Lissa, National University of Ireland, Galway, Ireland

Programme

O9:30 Establishing connections (see instructions below) Welcome speech and Introducing the Programme Chair: Sahar Vahdati, Institut für Angewandte Informatik, Germany Damien Graux, INRIA Sophia Antipolis – Méditerrande, France Farshad Bakhshandegan Moghaddam, Carsten Draschner, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Carsten Felix Draschner, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Bonc, Germany Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Socretal Macdedonia Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Mishen Japach Papsit Alaman Macdedonia Carsten Felix Draschner, Farshad Bakhshandegan Moghaddam, Jens Lehmann and Hajira Jabeen University of Mishen Japach Versity of Mishen Japach Versity		Session 1: Thursday, Jun	e 17. 9:30am-12:30pm
Programme	09:00	Establishing connections (see	
10:20 Semantic Web Analysis with Flavor of Micro-Services 10:40 Semantic Analytics in the Palm of Your Browser 11:00 Break 11:20 Detecting Related Sustainable Development Indicators Through Text Synthesis in Macedonia Language 11:40 Experimental Evaluation of Scalable Infrastructure for Text to Speech Synthesis in Macedonia Language 12:00 A blockchain-based Platform for Keeping Logs of Citizens' Consents 12:20 Lunch Break 13:25 Introducing the Programme 13:25 Numerical Tools Developed to Predict the Combustion Behavior Inside a 20 kW Pellet Boiler 13:30 PMU-based Fault Localization in Distribution Networks 14:10 PMU-based Fault Localization in Distribution Networks 14:30 Break 14:40 Machine Learning Based Wind Turbine Production Forecaster 15:20 Energy Efficiency Benchmarking for Multi-source Renewable Energy System 15:20 Energy Efficiency Benchmarking for Smart Homes Coordination Platform for Handling Emergencies and Restoration of Power Grid Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia	09:30	-	· · · · · · · · · · · · · · · · · · ·
10:20 Semantic Web Analysis with Flavor of Micro-Services 10:40 Semantic Analytics in the Palm of Your Browser 11:00 Break 11:20 Detecting Related Sustainable Development Indicators Through Text 11:40 Synthesis in Macedonian Language 12:40 Lunch Break 13:40 Numerical Tools Developed to Predict the Combustion Behavior Inside a 20 kW Pellet Boiler 13:50 Development Indicators Through Text 13:50 Traveling-wave Event Detection and Localization on Power Cables 14:40 Machine Learning Based Wind Turbine Production Forecaster 14:40 Machine Learning Based Wind Turbine Production Forecaster 15:20 Energy Efficiency Benchmarking for Multi-source Renewable Energy System 15:20 Energy Efficiency Benchmarking for Smart Homes 15:40 Energencies and Restoration of Power Grid 16:40 Development Indicators Through Your Ana Gjorgievikj, Kostadin Mishev, Lehmann and Hajira Jabeen University of Bonn, Germany 16:40 Ana Gjorgievikj, Kostadin Mishev, Dimitar Trajanov and Lipuco Koscare Ss. Cyril and Methodius University, North Macedonia 16:40 Marija Popović and Nikola Tomašević, Institute Mihajlo Pupin, Serbia 17:40 Development Indicators Through Your Ana	09.35	Keynote	
11:00 Break Detecting Related Sustainable Development Indicators Through Text Experimental Evaluation of Scalable Infrastructure for Text to Speech Synthesis in Macedonian Language 12:00 A blockchain-based Platform for Keeping Logs of Citizens' Consents 12:20 Lunch Break Session 2: Thursday, June 17, 13:25am-16:00pm Introducing the Programme Serbia Numerical Tools Developed to Predict the Combustion Behavior Inside a 20 kW Pellet Boiler PMU-based Fault Localization in Distribution Networks 14:10 Traveling-wave Event Detection and Localization on Power Cables 14:30 Break 15:20 Energy Efficiency Benchmarking for Smart Homes Coordination Platform for Handling Emergencies and Restoration of Power Grid Moghaddam, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Moghaddam, Jens Lehmann and Hajira Jabeen University of Bonn, Germany Mana Gjorgjevikj, Kostadin Mishev, Dimitar Trajanov and Ljupco Kocarev Ss. Cyril and Methodius University, North Macedonia A ha Gjorgjevikj, Kostadin Mishev, Dimitar Trajanov and Ljupco Kocarev Ss. Cyril and Methodius University, North Macedonia Marajia Popović and Nikola Tomašević, Institute Mihajlo Pupin, Serbia 13:25 Introducing the Programme Chair: Lazar Berbakov, Institute Mihajlo Pupin, Serbia Denis Sodin, Jožef Stefan Institute, Slovenia Marko Hudomalj, Jožef Stefan Institute Mihajlo Pupin, Serbia Marko Jelić, Dea Pujić and Marko Batić, Institute Mihajlo Pupin, Serbia Marko Jelić, Dea Pujić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia Mihajlo Pupin, Serbia	10.20	-	Draschner, Jens Lehmann and Hajira Jabeen
Detecting Related Sustainable Development Indicators Through Text	10:40		
11:20 Development Indicators Through Text	11:00	Break	
11:40 Infrastructure for Text to Speech Synthesis in Macedonian Language	11:20		Trajanov and Ljupco Kocarev Ss. Cyril and Methodius University, North
12:20 Lunch Break Session 2: Thursday, June 17, 13:25am-16:00pm Introducing the Programme Chair: Lazar Berbakov, Institute Mihajlo Pupin, Serbia Numerical Tools Developed to Predict the Combustion Behavior Inside a 20 kW Pellet Boiler 13:50 PMU-based Fault Localization in Distribution Networks 14:10 Traveling-wave Event Detection and Localization on Power Cables 14:30 Break 14:40 Machine Learning Based Wind Turbine Production Forecaster The Cloud-based Control Platform for Multi-source Renewable Energy System 15:20 Energy Efficiency Benchmarking for Smart Homes Coordination Platform for Handling Emergencies and Restoration of Power Grid Mihajlo Pupin, Serbia Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia	11:40	Infrastructure for Text to Speech	Kostadin Mishev, Ana Gjorgjevikj and Dimitar Trajanov Ss. Cyril and Methodius University, North
Session 2: Thursday, June 17, 13:25am-16:00pm Introducing the Programme Chair: Lazar Berbakov, Institute Mihajlo Pupin, Serbia Numerical Tools Developed to Predict the Combustion Behavior Inside a 20 kW Pellet Boiler 13:30 PMU-based Fault Localization in Distribution Networks 14:10 Traveling-wave Event Detection and Localization on Power Cables 14:30 Break 14:40 Machine Learning Based Wind Turbine Production Forecaster 15:00 The Cloud-based Control Platform for Multi-source Renewable Energy System 15:20 Energy Efficiency Benchmarking for Smart Homes Coordination Platform for Handling Emergencies and Restoration of Power Grid Chair: Lazar Berbakov, Institute Mihajlo Pupin, Serbia João Pedro Silva, Senhorinha Teixeira and José Teixeira, University of Minho, Portugal Marko Hudomalj, Jožef Stefan Institute, Slovenia Denis Sodin, Jožef Stefan Institute, Slovenia Marko Hudomalj, Jožef Stefan Institute, Slovenia Dea Pujić and Valentina Janev, Institute Mihajlo Pupin, Serbia Katarina Stanković, Marko Jelić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia	12:00		
13:25 Introducing the Programme Chair: Lazar Berbakov, Institute Mihajlo Pupin, Serbia Numerical Tools Developed to Predict the Combustion Behavior Inside a 20 kW Pellet Boiler 13:30 PMU-based Fault Localization in Distribution Networks 14:10 Traveling-wave Event Detection and Localization on Power Cables 14:30 Break 14:40 Machine Learning Based Wind Turbine Production Forecaster 15:00 The Cloud-based Control Platform for Multi-source Renewable Energy System 15:20 Energy Efficiency Benchmarking for Smart Homes Coordination Platform for Handling Emergencies and Restoration of Power Grid Chair: Lazar Berbakov, Institute Mihajlo Pupin, Senbia Teixeira, University of Minho, Portugal	12:20	Lunch Break	
Numerical Tools Developed to Predict 13:30 the Combustion Behavior Inside a 20 kW Pellet Boiler 13:50 PMU-based Fault Localization in Distribution Networks 14:10 Traveling-wave Event Detection and Localization on Power Cables 14:30 Break 14:40 Machine Learning Based Wind Turbine Production Forecaster 15:00 The Cloud-based Control Platform for Multi-source Renewable Energy System 15:20 Energy Efficiency Benchmarking for Smart Homes Coordination Platform for Handling Emergencies and Restoration of Power Grid Numerical Tools Developed to Predict João Pedro Silva, Senhorinha Teixeira and José Teixeira, University of Minho, Portugal Teixeira, University of Minho, Potugal Teixeira, University of Minho, Potugal Teixeira, University of Minho, Portugal		Session 2: Thursday, June	e 17, 13:25am-16:00pm
13:30 the Combustion Behavior Inside a 20 kW Pellet Boiler 13:50 PMU-based Fault Localization in Distribution Networks 14:10 Traveling-wave Event Detection and Localization on Power Cables 14:30 Break 14:40 Machine Learning Based Wind Turbine Production Forecaster 15:00 The Cloud-based Control Platform for Multi-source Renewable Energy System 15:20 Energy Efficiency Benchmarking for Smart Homes Coordination Platform for Handling 15:40 Emergencies and Restoration of Power Grid Teixeira, University of Minho, Portugal Denis Sodin, Jožef Stefan Institute, Slovenia Marko Hudomalj, Jožef Stefan Institute, Slovenia Dea Pujić and Valentina Janev, Institute Mihajlo Pupin, Serbia Katarina Stanković, Marko Jelić and Marko Batić, Institute Mihajlo Pupin, Serbia Marko Jelić, Dea Pujić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia	13:25	Introducing the Programme	
14:10 Traveling-wave Event Detection and Localization on Power Cables 14:30 Break 14:40 Machine Learning Based Wind Turbine Production Forecaster 15:00 The Cloud-based Control Platform for Multi-source Renewable Energy System 15:20 Energy Efficiency Benchmarking for Smart Homes Coordination Platform for Handling Emergencies and Restoration of Power Grid Marko Hudomalj, Jožef Stefan Institute, Slovenia National Hudomalj, Jožef Stefan Institute, Slovenia Marko Hudomalj, Jožef Stefan Institute, Slovenia Pupin, Serbia Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia Mihajlo Pupin, Serbia	13:30	the Combustion Behavior Inside a 20	
14:30 Break 14:40 Machine Learning Based Wind Turbine Production Forecaster 15:00 The Cloud-based Control Platform for Multi-source Renewable Energy System 15:20 Energy Efficiency Benchmarking for Smart Homes Coordination Platform for Handling Emergencies and Restoration of Power Grid Localization on Power Cables Dea Pujić and Valentina Janev, Institute Mihajlo Pupin, Serbia Katarina Stanković, Marko Jelić and Marko Batić, Institute Mihajlo Pupin, Serbia Marko Jelić, Dea Pujić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia	13:50		Denis Sodin, Jožef Stefan Institute, Slovenia
14:40 Machine Learning Based Wind Turbine Production Forecaster 15:00 The Cloud-based Control Platform for Multi-source Renewable Energy System 15:20 Energy Efficiency Benchmarking for Smart Homes Coordination Platform for Handling Emergencies and Restoration of Power Grid Dea Pujić and Valentina Janev, Institute Mihajlo Pupin, Serbia Katarina Stanković, Marko Jelić and Marko Batić, Institute Mihajlo Pupin, Serbia Marko Jelić, Dea Pujić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia	14:10		Marko Hudomalj, Jožef Stefan Institute, Slovenia
15:00 Production Forecaster 15:00 The Cloud-based Control Platform for Multi-source Renewable Energy System 15:20 Energy Efficiency Benchmarking for Smart Homes Coordination Platform for Handling Emergencies and Restoration of Power Grid Pupin, Serbia Katarina Stanković, Marko Jelić and Marko Batić, Institute Mihajlo Pupin, Serbia Marko Jelić, Dea Pujić and Marko Batić, Institute Mihajlo Pupin, Serbia Dušan Popadić and Marko Batić, Institute Mihajlo Pupin, Serbia	14:30	Break	
15:00 Multi-source Renewable Energy System Institute Mihajlo Pupin, Serbia Energy Efficiency Benchmarking for Smart Homes Coordination Platform for Handling Emergencies and Restoration of Power Grid Multi-source Renewable Energy System Institute Mihajlo Pupin, Serbia Marko Jelić, Dea Pujić and Marko Batić, Institute Mihajlo Pupin, Serbia Mihajlo Pupin, Serbia	14:40	<u> </u>	•
Smart Homes Mihajlo Pupin, Serbia Coordination Platform for Handling Dušan Popadić and Marko Batić, Institute 15:40 Emergencies and Restoration of Power Grid Mihajlo Pupin, Serbia	15:00		Katarina Stanković, Marko Jelić and Marko Batić, Institute Mihajlo Pupin, Serbia
15:40 Emergencies and Restoration of Power Mihajlo Pupin, Serbia Grid	15:20	·	Marko Jelić, Dea Pujić and Marko Batić, Institute Mihajlo Pupin, Serbia
16:00 End of the Programme	15:40	Emergencies and Restoration of Power	
	16:00	End of the Programme	

Connection details

Thursday, June 17, 9:00am-16:30pm

Ph.D. Workshop

Thu, Jun 17, 2021 8:30 AM - 4:30 PM (CEST)

Please join my meeting from your computer, tablet or smartphone.

https://global.gotomeeting.com/join/765649885

You can also dial in using your phone.

United States: +1 (872) 240-3412

Access Code: 765-649-885

New to GoToMeeting? Get the app now and be ready when your first meeting starts: https://global.gotomeeting.com/install/765649885