



Newsletter 45 of EUROPT

EUROPT - The Continuous Optimization Working Group of EURO

<https://www.euro-online.org/websites/continuous-optimization/>

March 2020

In this issue:

• Words from the Chair	3
• EUROPT Fellow 2020	4
• EUROPT Workshops	5
• Forthcoming Event : EUROPT 2020	5
• Reports	7
• Report on ICO 2019	7
• Report on SIMANTAP 2019	10
• Report on Poznan University of Technology hosting Prof. Dr. J. Kallrath . . .	13
• Forthcoming events	15
• EURASIAN RISK 2020	15
• ICO 2020	19
• Logistic and Supply Chain Congress 2020	22
• EWGORD 2020	23
• Call for papers	24
• Special Issue of Applied Science	24
• Special Issue of IEEE Trans. on Fuzzy Systems	25
• Contacts	28
• Editor's notes	29

Words from the Chair

Dear Friends,

On behalf of the Managing Board welcome to the 45th EUROPT Newsletter. A new year is ahead us bringing new and unexpected challenges. The whole world is being shaken by this new coronavirus. The current situation is affecting the networking activities of the scientific communities as well. July is still a long time to go, so our annual workshop is regularly planned in Toulouse, France, on 1-3 July. I wish to thank the so many people who submitted abstracts for talks. There is still some time to submit: all the deadlines have been postponed, you can find the current dates in the Newsletter. Further updates will be provided through our mailing-list, that you can freely join at the webpage <http://listgateway.unipi.it/mailman/listinfo/europt>.

A selection committee, including most EUROPT Fellows and Past Chairs beyond the current Managing Board, elected the new EUROPT Fellow, who will deliver the Fellowship Lecture at our workshop in Toulouse. If you missed the announcement, browse the Newsletter to find out which outstanding researcher has been awarded! Let me thank all who proposed candidates and the selection committee for their valuable service to our community.

The new EUROPT website <https://www.euro-online.org/websites/continuousoptimization/> was released two years ago. The group is very large but still the member list on the website does not reflect it at all. Please, take a few minutes to register. Even if you already registered and you wish to, please log in again to give your explicit consent to make your profile public. Indeed, only registered users of the working group that explicitly gave consent to make their profile public appear in the member list. Thank you all.

Giancarlo Bigi, EUROPT Chair

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EUROPT Fellow 2020

EUROPT honours outstanding researchers in continuous optimization by awarding annually the EUROPT Fellowship. It is a great pleasure for the EUROPT Managing Board to announce that Manlio Gaudioso (Università della Calabria, Italy) has been elected EUROPT Fellow 2020.

Manlio Gaudioso is recognized for his outstanding scientific contributions to continuous optimization. He has made remarkable contributions to nonsmooth and nonconvex optimization, clustering and classification via optimization, and developed applications of both continuous and discrete optimization to logistics and transportation. He has also been deeply involved in our community over many years, directing major scientific workshops such as those at the Ettore Majorana Foundation and Centre for Scientific Culture in Erice.

Professor Manlio Gaudioso will present the EUROPT Fellowship Lecture as a plenary talk at our annual workshop, which will be held on 1-3 July at ENAC - Ecole Nationale de l'Aviation Civile in Toulouse (France).

The selection committee included EUROPT Fellows and Past Chairs beyond the Managing Board:

- Miguel Anjos (Fellow)
- Paula Amaral (MB)
- Adil Bagirov (Fellow)
- Giancarlo Bigi (MB Chair)
- Immanuel Bomze (Fellow - EURO President)
- Sonia Cafieri (MB)
- Jacek Gondzio (Fellow)
- Andreas Grothey (MB)
- Tibor Illés (MB Honorary Chair)
- Florian Jarre (MB Past Chair)
- Joaquim Judice (Fellow)
- Dmitri Kvasov (MB)
- Marco Locatelli (Fellow)
- Marco Antonio López Cerdá (MB Past Chair)
- Kaisa Miettinen (MB Past Chair)
- Yurii Nesterov (Fellow)
- Laura Palagi (MB)
- Panos Pardalos (Fellow)
- János D. Pintér (MB Past Chair)
- Cornelis Roos (Fellow)
- Yaroslav D. Segeyev (Fellow)
- George J. Still (Fellow)
- Christiane Tammer (MB)
- Tamás Terlaky (MB Honorary Chair)
- Gerhard Wilhelm Weber (MB Honorary Chair)
- Julius Zilinskas (MB Past Chair)

Our warmest congratulations to the new EUROPT Fellow!

EUROPT Workshops

18th EUROPT Workshop on Advances in Continuous Optimization Toulouse, France, July 1-3, 2020

<http://europt2020.recherche.enac.fr/>



The EUROPT 2020 Workshop - 18th EUROPT Workshop on Advances in Continuous Optimization - that is the annual event of the EUROPT Continuous Optimization working group of EURO, will be held in **Toulouse**, France, on **July 1-3**. It will bring together researchers from Europe and around the globe for stimulating discussions on the latest developments in continuous optimization.

EUROPT 2020 will also celebrate 20 years of activity of the working group.

Important Dates

- Abstract Submission: EXTENDED to March 22, 2020
- Abstract Acceptance: EXTENDED to April 5, 2020
- Registration deadline: EXTENDED to May 6, 2020
- Workshop: July 1-3, 2020

Plenary Speakers

- Claudia D'Ambrosio (CNRS, France)
- Martine Labbé (Université Libre de Bruxelles, Belgium)
- Oliver Stein (Karlsruhe Institute of Technology, Germany)
- EUROPT Fellow Lecture by Manlio Gaudioso (Università della Calabria, Italy)

Venue

EUROPT 2020 will be hosted at ENAC - École Nationale de l'Aviation Civile, in Toulouse, the "pink city" in southern France.

Call for Contributions

Authors are invited to submit abstracts through the EURO submission system at <http://www.euro-online.org/conf/europt2020/>

Informations on organised sessions are available at http://europt2020.recherche.enac.fr/?page_id=19

Please contact the organisers to contribute to the sessions.

Registration

Registration is open at http://europt2020.recherche.enac.fr/?page_id=21

More information

More information about EUROPT 2020 are disseminated via the website <http://europt2020.recherche.enac.fr/>.

We are looking forward to welcoming you in Toulouse!

Sonia Cafieri, sonia.cafieri@enac.fr

EUROPT 2020 Program Committee Chair

On behalf of the EUROPT 2020 Organizing Committee

Reports

Report on ICO-2019

2nd International Conference on Intelligent Computing and Optimization

On Oct 3-4, 2019, the ICO organized its second International Conference on Intelligent Computing and Optimization in Koh Samui, Thailand (<https://www.icico.info/>). It was a two-day event, with more than 50 attendees from 12 countries. The conference chaired by Professor Pandian Vasant and Professor Ivan Zelinka, brought together renowned experts from all around the globe. The success of this ICO2019 conference was made possible because of the perseverance; great dedication and hard-work exerted by the Organizing Committee (<https://www.icico.info/committe>) headed by its co-chairs from the Prof. Dr. Pandian Vasant, and ICO committee members, TPC members and programme committee members.



ICO 2019, Koh Samui

The event combined parallel sessions, which focused on particular hot topics such as robotics, image recognition, operational research, machine learning, deep learning, medical engineering, learning analytics, intelligent transportation, optimization algorithmic models, electronic digital farm, solar and renewable energy by presenters. Prof. Dr. Ivan Zelinka states that “the scientific level was really outstanding throughout the whole conference”, with all the speakers, senior and young, constantly keeping the interest of the audience, maintaining the momentum since the very first lecture by Prof. Dr. Vasant, and with all the Session Chairs and attendees nicely contributing to fruitful discussions after each talk.

The main theme of this event was the development of intelligent computational methods through innovative technologies with efficient optimization strategies. The session dedicated to this topic had to be split into two different days with six parallel sessions. This is a clear evidence of the importance of industry 4.0 research today. Professor Ivan Zelinka gave a remarkable talk on the recent progress in the self-organizing migration algorithm (SOMA) with applications in control and design of complex systems. He explained the use and development of new algorithms and their effective use in modern cyber security, computer commercial games.

In addition, the conference organization, together with the sponsors, offered four prizes, in one best oral presentation and three for the best papers, the latter elected by all the session chairs. The winners were announced at the award ceremony that was held on the last day by Prof. Pandian Vasant and one of the committee member, Dr. J. Joshua Thomas witnessed by Prof. Ivan Zelinka. The **best oral presentation** award have granted to Seong-Hyeong Lee, from the Dong-A University, Busan, South Korea, for his talk titled “Structural Design of an LMU using approximate model and satisfying Trade-off Method”. The three **Best Papers Awards** were granted to Hnin Aye Kwin from University of Information Technology, Yangon, Myanmar, for the paper “Neural Machine Translation on Myanmar Language”, to Tham Vo from Lac Hong University, Dong Nai, Vietnam, for the paper “A novel system for related keyword extraction over a text stream of articles”, and to Shyala Sharmin from Chittagong University of Engineering and Technology, Bangladesh, for the paper “Developing an empirical robotic framework to established bidirectional eye contact”.



Award Ceremony: Left: Hnin Aye Kwin; Middle: Moshui Hoque; Right: Tham Vo - with Chair Prof. Vasant

To conclude the conference, the fervent Closing Session was held at the Bay Water Resort Koh Samui, Main Hall. It has been highlighted that there are offers to submit papers to special issues of excellent journals, chapters to a Book; here authors may further present their research works:

https://www.mdpi.com/journal/applsci/specialIssues/applied_optimization_cle_an_renewable_energy,
<https://cis.ieee.org/publications/t-fuzzy-systems/tfs-special-issues>,
<https://onlinelibrary.wiley.com/journal/14678640>,
<https://www.igi-global.com/publish/call-for-papers/call-details/4366>,

and information was given about ICO 2020 that will take place Bangkok, Thailand, through presentations disseminated by the chairs; committee members received feedback for future improvement.

In addition, the members of the committees of ICO 2019 were greatly acknowledged. So much, we learned, so much fun, history, marvellous gala dinner (<https://bit.ly/31Oy85V>) we enjoyed with many wonderful humans. ICO 2019: an investment into the future and its service in building up our world of tomorrow in togetherness and friendliness.

The ICO 2019 committee has elected the following persons for the keynote speakers for *ICO 2020*: Professor Jose A Marmolejo (Mexico); Professor Elias Munapo (South Africa); Professor Vladimir Panchenko (Russia); Professor Emi Yuda (Japan); Professor Joshua Thomas (Malaysia).

Special Session Chairs for *ICO 2020* will be: Professor Elias Munapo, North West University, South Africa; Professor Vladimir Panchenko, Russian University of Transport, Russia;

Professor J. Joshua Thomas, KDU Penang University College, Malaysia; Professor Jose Antonio Marmolejo and Professor Roman Rodriguez, Mexico; Professor Mohammed Moshiul Hoque, Chittagong University of Engineering & Technology, Bangladesh; Professor Bazeer Ahamed B, Balaji, Institute of Technology & Science, India; Professor Mohammad Shamsul Arefin, Chittagong University of Engineering and Technology; Professor Igor Litvinchev, Nuevo Leon State University, Mexico; Professor Kharchenko Valeriy, Federal Scientific Agroengineering Center VIM, Russia; Professor Ala Al-Janabi, Ahmed Bin Mohammed Military College, Qatar.

ICO 2019 committee would like to sincerely thank Prof. Dr. Janusz Kacprzyk and Dr. Thomas Ditzinger for their marvelous contribution in publishing ICO2019 conference proceedings in SPRINGER NATURE. (Publication Link: <https://link.springer.com/book/10.1007/978-3-030-33585-4>)

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Report on SIMANTAP-2019

An Avenue for OR in Indonesia 10 Years Anniversary, and a Happy Birthday

Mathematics for Everyone was the theme of the recently concluded 10th SIMANTAP 2019 (National Seminar on Mathematics and Its Applications) which was held at Sapadia Hotel, Pematangsiantar (Siantar), North Sumatra, Indonesia (<https://tunasbangsa.ac.id/simantap/>).

The two-day congress which was held on November 28-29, 2019, has been an activity of the Indonesian Mathematical Society (IndoMS). It aimed to organize a forum for researchers, lecturers, teachers and students to exchange ideas, experiences, researches and their applications in the field of Mathematics and Mathematics Education. The seminar was initiated by the Regional Board of IndoMS in 2010 and is now being done annually.



From Left to Right: Prof. Gerhard-Wilhelm Weber (Poznan University of Technology, Poland), Dr. Olabode S. Adewoye (Yaba College of Technology, Nigeria), Dr. Ahmad Ridwansyah Putra (The Main Conference Organizer), Prof. Dorien J. DeTombe (Delft University of Technology, Netherlands), Prof. Milagros R. Baldemor (DMMMSU, Philippines) and Prof. Tracey Muir of University of Tasmania, Australia) as they were given honors on stage before the start of the conference.

Six keynote speakers and two invited speakers - all experts in the field of Operational Research - graced the occasion and gave their lectures on the first day of the seminar. The six keynote speakers with their presentations are as follows: **Prof. Dr. Tracey Muir** of the University of Tasmania, Australia, whose topic was on “Mathematical Opportunities and Teachable Moments”; **Dr. Olabode S. Adewoye** of Yaba College of Technology, Lagos, Nigeria who discussed on “OR: The Real Reason Why Mathematics is for Everyone”; **Prof. Dr. Gerhard-Wilhelm Weber** of the Faculty of Engineering Management, Poznan University of Technology, Poland, and Institute of Applied Mathematics, METU, Ankara, Turkey, whose lectures were on “RMARS Under Cross-Polytope Uncertainty - Prediction of Natural Gas Consumption with Mathematics and Artificial Intelligence” and “Rumor Propagation Model: OR and Numerical Approach”; **Prof. Dr. Dorien J. DeTombe** of Delft University of Technology, Netherlands, whose lecture was on “Prevention of Obesity: A Complex Societal Problem”. The other two keynote speakers from Indonesia were **Dr. Syahril Efendi** - the IndoMS Governor of Aceh - North Sumatra Region and a lecturer from Universitas Sumatera Utara, Medan, Indonesia, whose presentation was on “Football Competition Information System in Indonesia With a

Home and Away System”, and **Dr. Dedy Hartama**, one of the organizers and a lecturer of Amik Tunas Bangsa who discussed on “Model Disaster Evacuation Handle Routing Time (DEHART) for Disaster Traffic Management”. Two Invited Speakers added to the list of OR experts. They were **Prof. Dr. Milagros R. Baldemor** - the Dean of the College of Graduate Studies of the Don Mariano Marcos Memorial State University, Philippines, who presented her paper entitled “The 7Es Instructional Model and its Longitudinal Impact on the Mathematics Achievement of Tertiary Students” and **Prof. Masaji Watanabe** of Okayama University, Japan, whose paper was on “Numerical Techniques for Underwater Topographic Measurement with GPS and Echo Sounder”.



Seated in the front row from left to right: Boy (Prof. Herman Mawengkang’s son), Dr. Dedy Hartama, Dr. Olabode S. Adewoye, Prof. Gerhard-Wilhelm Weber, Dr. Ahmad Ridwansyah Putra, Prof. Herman Mawengkang, Prof. Dorien DeTombe, Prof. Milagros Baldemor, Dr. Tracey Muir and Devy (Prof. Mawengkang’s daughter). Standing are other conference participants and friends of Prof. Mawengkang

The conference was a very successful one as it was attended by **ca. 800 participants** broken down as follows: 181 paper presenters and 611 further cheerful attendees. Questions were asked by the participants to the keynote and invited speakers to clarify their queries and they were gladly answered by the speakers; this showed that the participants were further satisfied with the answers given to them. Six sessions were organized due to the numerous participants who attentively listened to the presentations. Clarifications were given by the researchers during the question and answer portion led by the moderators assigned.

Another highlight of the event was the celebration of the 73rd birthday of the great man behind OR in North Sumatra. Branded as the “Godfather of Operations Research in North Sumatra” is Prof. Herman Mawengkang, a retired professor of Universitas Sumatera Utara (USU), Medan, Indonesia. He is an idol to lecturers and students in the field of research and an active consultant to major universities in North Sumatra. He was greeted by well-wishers with songs and gifts. He is the main reason why annual SIMANTAP Conferences are held during his natal day.

During SIMANTAP 2019 also a Skype Conference was held with Poznan University of Technology (PUT), Poland, on scientific research collaboration in Human Resource Management and Analytics; discussants of that online-panel where Assist. Dr. Magdalena Graczyk-Kucharska and Assist. Dr. Malgorzata Spychala (both from Faculty of Engineering Management, PUT).

Both also are active stream organizers at our EURO and IFORS conferences on OR.

In fact, at SIMANTAP 2019 we warmly invited to IFORS 2020 in Seoul, South Korea, June 21-26, 2020 (<http://www.ifors2020.kr/>), and EURO 2021, Athens, Greece, July 11-14, 2021 (<https://www.euro-online.org/web/pages/421/activities-list>).

On November 29, the second day of the conference, while the sessions were going on in the venue, the keynote/invited speakers were toured around the scenic spots of Pematangsiantar including but not limited to the famous Lake Toba where they enjoyed a lot. They were gladly accompanied by Dr. Ahmad Ridwansyah Putra, the conference organizer and Rector of Amik and Stikom Tunas Bangsa (<https://amiktunasbangsa.ac.id/main/>) of Siantar, Indonesia.

While on tour, the speakers shared their experiences regarding the hospitality, cooperation and friendliness of the Indonesians they encountered. They were deeply appreciated as they sought to make the country their second home.

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Report on Poznan University of Technology hosting Prof. J. Kallrath

Avenues of Modern Operational Research

In October 2019, Poznan University of Technology, PUT, Poland (put.poznan.pl/en) hosted scholar, astrophysicist, professor at the University of Florida in Gainesville, USA, Prof. Dr. Josef Kallrath (users.astro.ufl.edu/kallrath/). Professor Kallrath spent three days with representatives from the Faculty of Computing, PUT (fc.put.poznan.pl/en), and from Faculty of Engineering Management, PUT (fem.put.poznan.pl/en). During the visit, there was time not only for scientific discussions and consultations which took place at official meetings, but also for social activities and cultural exchange, including general ideas on quality of life. Right at the beginning of the visit, social activities focused on sightseeing in Poznan's Old Town, and a visit to another city of Greater Poland, the first capital (along with Poznan) of Poland, Gniezno, was organized. The broad scope of scientific interests which relate Prof. Dr. Josef Kallrath with PUT researchers were considered during the meeting with Prof. Dr. hab. inz. Roman Slowiński (Faculty of Computing and Institute of Computing Science, Laboratory of Intelligent Decision Support Systems, PUT).



Reception and discussions in the “Informatics Institute” (from left to right): Prof. Dr. hab. inz. Roman Slowiński (Faculty of Computing and Institute of Computing Science, Laboratory of Intelligent Decision Support Systems, PUT) with Prof. Dr. Josef Kallrath, Prof. Dr. hab. rer. nat. Gerhard-Wilhelm Weber, and Dr. inz. Joanna Majchrzak.

During his **seminar** at Institute of Computing Science, Poznan University of Technology, Prof. Dr. Josef Kallrath (University of Florida, Gainesville, FL), presented the results of his studies on Arrangements of Circles and Spheres leading to Convex Hulls with Minimal Boundaries. The lecture was related with cutting, packing, and minimal convex hulls in 2D and 3D, with a rich diversity of illustrations and valuable remarks. During the seminar, there was the chance for discussions related with a wide scope of Prof. Dr. Josef Kallrath's research interests, on subjects of large-scale optimization problem, decomposition methods, column generation techniques, and hybrid methods, parameter estimation in massive data sets from astronomical surveys, combining computational geometry and mathematical optimization. The professional experience of the visitor, especially in solving industrial problems with a broad spectrum of scientific computing methods that range from physical modelling to decision process support, as well as production planning and scheduling by mathematical optimization, contributed a lot to the discussion among the researchers from hosting Faculty of Computing, PUT, and from

Faculty of Engineering Management, PUT.



Cheerful togetherness after his seminar presentation (from right to left): Administrative Director of Faculty of Engineering Management Mgr inż. Arkadiusz Kalemba, Prof. Dr. hab. rer. nat. Gerhard-Wilhelm Weber, Deputy Director of Institute of Computing Science Prof. Dr. hab. inż. Jerzy Nawrocki, Prof. Dr. hab. inż. Roman Slowiński (Faculty of Computing and Institute of Computing Science, Laboratory of Intelligent Decision Support Systems, PUT), Dean of Faculty of Engineering Management Prof. Dr. hab. inż. Magdalena Wyrwicka, with Prof. Dr. Josef Kallrath and Dr inż. Joanna Majchrzak.

Professor Josef Kallrath has an in-depth knowledge related with binary stars (colliding winds, eclipsing binary), mathematical modelling and optimization systems in a wide range of industries, including energy, metals, paper, process, refineries, and telecommunication on solving real-world problems, which enhanced the discussions on future collaboration.

Prof. Dr. Josef Kallrath's deep and long experience as an educator, writer, and consultant guaranteed an excellent basis for mutual understanding in the diverse fields of studies gathered in the seminar audience. His contributions to BASF SE Ludwigshafen, Germany, to the Working Group "Real World Optimization" of German OR Society, and to international OR have been highly remarkable and are important.

In the course of Professor Kallrath's visit at PUT, the social activities hosted by Faculty of Computing, PUT, and supported by Faculty of Engineering Management, PUT, facilitated many and innovative pathways of further discussions, exchange of information and future joint research in science and teaching, and for our EURO (<https://www.euro-online.org/web/pages/1/home>) and IFORS (<https://ifors.org/>) conferences, such as IFORS 2020 (<http://www.ifors2020.kr/>) and EURO 2021 (<https://www.euro-online.org/web/pages/421/activities-list>).



During a social event: Dean of Faculty of Engineering Management Prof. Dr. hab. inż. Magdalena Wyrwicka (second from left), Administrative Director of Faculty of Engineering Management Mgr. Inż. Arkadiusz Kalemba and Prof. Dr. hab. rer. nat. Gerhard Wilhelm Weber (in the back) with Prof. Dr. Josef Kallrath.

We would like to give a special acknowledgement to Faculty of Computing, PUT, and to Faculty of Engineering Management, PUT, and its representatives who made possible and facilitated the organization of Prof. Dr. Josef Kallrath's visit and seminar, especially, to Pro-Rector Prof. Dr. hab. inż. Joanna Józefowska, Director Prof. Dr. hab. inż. Jacek Blazewicz, Prof. Dr. hab. inż. Roman Słowiński, Deputy Director Prof. Dr. hab. inż. Krzysztof Krawiec, and Dean Prof. Dr. hab. inż. Magdalena Wyrwicka, respectively.

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Forthcoming events

2nd EURASIAN CONFERENCE AND SYMPOSIUM: RISK-2020

12 – 19 April, 2020, Tbilisi, GEORGIA

A WEEK OF SCIENCE, CULTURAL HERITAGE AND RELIGION in GEORGIA

jointly organized by



AMIR
TECHNICAL
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INITIATOR - ORGANIZER - SPONSOR

AMIR Technical Services LLC
Georgia



Georgian Technical
University



Institute of Geography
Kazakhstan



Russian Institute of Petroleum
Geology and Geophysics

THE SECOND EURASIAN CONFERENCE RISK-2020
"Innovations in minimization of natural and technological risks"

12-19 April
2020
Tbilisi
Georgia

www.eurasianrisk2020.ge

WELCOME

The 2nd Eurasian Conference, Symposium and Young Scientists Spring School (RISK-2020) will be held on April 12-19, 2020, in Georgian Technical University, Tbilisi, Georgia. On behalf of Organizing Committee, it is our pleasure to invite you to participate in these events, which will contribute to the development of innovative solutions of important problems within analyses, assessment and minimization of natural and technological risks.

STAFF OF ORGANIZING COMMITTEE

Chairman: Prof.Dr. Vugar Aliyev (GEORGIA)
Co-Chair: academician Archil Prangishvili (GEORGIA)
Co-Chair: academician Nikolai Makhutov (RUSSIA)
Co-Chair: Prof.Dr. Motoki Kazama (JAPAN)



IMPORTANT DAYS

Registration Deadline:	29 February, 2020
Abstract Submission Deadline:	02 March, 2020
Announcement of Acceptance:	10 March, 2020
Announcement of Program:	16 March, 2020
RISK-2020 Conference:	12 – 13 April, 2020
Full Day Wine Tour to Kakheti	14 April, 2020
RISK-2020 Satellite Symposium:	15 – 16 April, 2020
Full Day Tour to Kazbegi	17 April, 2020
Holidays in Georgia	17 – 20 April, 2020
Orthodox Good Friday	17 April, 2020
Great Saturday	18 April, 2020
Orthodox Easter Day	19 April, 2020

LANGUAGE

The official languages all of the events are English and Russian.
Simultaneous translation will be provided for plenary sessions.

REGISTRATION FEES

Category	International Participation (except former Soviet Republics)	Former Soviet Republics (except Georgia)	Georgia
Full Registration	450 EUR	250 EUR	150 EUR
Accompanying person	200 EUR	100 EUR	50 EUR
On line participation	200 EUR	50 EUR	-

SECRETARIAT INFORMATION

Website: www.eurasianrisk2020.ge

E-mail: secretary@eurasianrisk2020.ge

Mob and WhatsApp: +994502-12-55-45

Only WhatsApp: +995597-12-55-45



3rd INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING & OPTIMIZATION 2020 (ICO2020)

Date: 8 - 9 October 2020

Hua Hin, Thailand

Conference website: <https://www.icico.info/>

Submission link: <https://easychair.org/conferences/?conf=ico2020>

Submission deadline: July 24, 2020

E-mail: icico2018@gmail.com

SCOPE

Innovative global optimization approaches have attracted many research scientists, decision makers, managers, executives, engineers, academicians, officers and practicing researchers in recent years as powerful intelligent computational techniques for solving several complex real-world application problems.

The International Conference on Intelligent Computing and Optimization (ICO'2020) highlights the latest research innovations and applications of algorithms designed for optimization applications within the fields of Science, Computer Science, Engineering, Information Technology, Management, Finance and Economics. Focusing on a variety of methods and systems as well as practical examples, this conference is a significant resource for post graduate-level students, decision makers, and researchers in both public and private sectors who are seeking research-based methods for modeling uncertain and unpredictable real-world problems.

Conference Topics

Topics to be discussed in this conference include (but are not limited to) the following:

Intelligent Computing: Artificial intelligence, Quantum computing, Deep Neural Networks, Self Organizing, Fuzzy Logic, Membrane Computing, Evolutionary Computation, Learning theory, Probabilistic methods, Image processing Computer vision, Speech recognition, Big Data, Evolutionary Algorithm, Randomness Monte Carlo Methods, Algorithmic Probability, Chaos Theory, Cryptography, Game Theory, Information Theory, Pattern Recognition, Natural Computing, Evolutionary Robotics Knowledge-based System, Machine Learning, Unsupervised Learning, Computational Finance, Computational Economics, DNA Computing, Deep Learning, Wavelets.

Optimization: Ant Colony Optimization, Artificial Bee Colony, Artificial Immune Systems, Artificial Neural Networks, Automatic Computing, Bacterial Foraging, Biological Computing, Chaos Optimization, Cloud Computing, Combinatorial Optimization, Computational intelligence, Continuous Optimization, Cultural Algorithms. Differential Evolution, Direct Search, Evolutionary Computing, Fuzzy Optimization, Genetic Algorithms, Granular Computing, Hybrid Algorithms, Local and Global Search, Memetic Algorithms, Meta-heuristic Methods, Particle Swarm Optimization, Pattern Search, Simulated Annealing, Simulation and Modeling, Soft Computing Techniques, Support Vector Machines, Swarm Intelligence, Tabu Search, Variable Neighborhood Search, Quasi-Newton Methods, Monkey algorithm, Mathematical programming.

Applications:

IoT, Adaptive Response, Microwave Field, Electric Skin Activity, Flood Management, LegMating Unit, Animal Husbandry, Reinforcement Learning, Solar Energy, Anaerobic Treatment Radiation, Elastic Damping Mechanism, Optimal Power Supply, Smart Home, Traveling Salesman Problem, Clustering Algorithms, Neural Machine Translation, Handwritten Recognition, Web Based Instruction, Load & Pollution Forecasting, SSD-MobileNet, Financial & Debt Ratios, Truth Discovery, Learning Analytics, Face Recognition, Mobile Cloud Gaming, Disposing Waste, Smart Audit, Drone, Menstrual Cycle, Pulse Wave, Traffic Data, Supply Chain, Electricity Prices, Health Economics, Photocells, Knight's Tour Problem, Electro-activated air, Vehicular communications, Elastic damping mechanism, Energy saving, Autonomous Vehicle, Photovoltaic, Grain drying, Loose material, Social Network, Monitoring System, Electroencephalogram, Block-chain, Molecular dynamics, Tree hierarchies, Hub Location, Path relinking, Interoperability, Trend Detection, Packing problem, Android.

Important Dates

Workshops/Tutorial proposals	10 June 2020
Full paper/Poster/Demos	24 July 2020
Acceptance Notification	15 August 2020
Camera ready deadline	10 September 2020

Highlights

All accepted and reviewed papers will be published by Springer and made available through Springer-Link Digital Library, one of the world's largest scientific libraries.

PAPER SUBMISSIONS

Proceedings Publication

The proceeding is submitted for inclusion to the leading indexing services: DBLP, Google Scholar, Thomson Scientific ISI Proceedings, EL Elsevier Engineering Index, Cross Ref, Scopus, as well as Springer Book Series. The accepted and reviewed papers of ICO'2020 will be published in the Springer Nature "Advances in Intelligent Systems and Computing".

<https://www.springer.com/series/11156>

Please submit your paper here

<https://easychair.org/conferences/?conf=ico2020>

Information for Authors of Springer Proceedings

<https://www.springer.com/us/authors-editors/conference-proceedings/conference-proceedings-guidelines>

All papers must be original and not simultaneously submitted to another journal or conference. The following paper categories are welcome:

The proceedings are submitted for inclusion to the leading indexing services: DBLP, Google Scholar, Thomson Scientific ISI Proceedings, EI Elsevier Engineering Index, CrossRef, Scopus, as well as Springer Book Series.

Submission Procedure:

- Papers should be in English.
- Regular papers should be up to 10 pages in length.
- Short papers should be up to 6 pages in length.
- Previously published work may not be submitted, nor may the work be concurrently submitted to any other conference or journal. Such papers will be rejected without review.
- Papers must be formatted using the SPRINGER Author's Kit. Detailed instructions and templates are available at <https://www.springer.com/us/authors-editors/conference-proceedings/conference-proceedings-guidelines>

Authors are invited to submit original, unpublished research papers that are not currently under review elsewhere. Based on TPC reviews and discussions, some papers may be accepted as 6-page short papers, in addition to the regular 10 page papers.

All articles will also be offered for other relevant major indexes such as Scopus, Engineering Village (Compendex), Microsoft Academic Search and PubMed.

Venue

The conference will be held in **G Hua Hin Resort & Mall, Hua Hin**

Contact

Please kindly contact us at e-mail: icico2018@gmail.com



18th INTERNATIONAL LOGISTICS AND
SUPPLY CHAIN CONGRESS
GAZİANTEP / TURKEY

"HUMANITARIAN LOGISTICS AND SUPPLY CHAIN MANAGEMENT"

OCTOBER 15-16, 2020



Important Dates

- * Deadline for abstract submission
May 31, 2020
- * Early registration date
August 3, 2020
- * Deadline for full manuscripts submission (optional)
August 21, 2020
- * Late registration date
October 6, 2020
- * 18th LM-SCM 2020 Congress
October 15-16, 2020



Conference Website

<http://lmscm2020.gantep.edu.tr/>



Contact and Follow Us



lmscm2020@gantep.edu.tr



@lmscm2020



lmscm2020



Venue



Gaziantep Üniversitesi Mavera
Kongre ve Sanat Merkezi

Gaziantep Üniversitesi Merkez
Kampusu, 27310 Şehitkamil/
Gaziantep/Türkiye

Organizers



Submission

<https://easychair.org/my/conference?conf=lmscm2020>



Topics of Interest

The main theme of the congress is "Humanitarian Logistics and Supply Chain Management". Potential topics include, but are not limited to, the following:

- Autonomous Vehicles in Logistics
- Big data analytics in logistics
- E-commerce and omnichannel logistics
- Logistics 4.0
- Sustainability in logistics and supply chains
- Green logistics and supply chain management
- Transportation and warehouse management
- Social responsibility in logistics and supply chains
- Best practices in logistics and supply chains
- Innovation and technology management
- Risk management
- Retail logistics and supply chains
- Service supply chains
- Sourcing and outsourcing
- Special topics in logistics and supply chains
- Innovative and smart technologies in logistics
- Smart and sustainable city logistics
- Emergencies and crisis logistics
- Humanitarian logistics
- Health care logistics
- Transportation law



Publication Opportunities

The accepted papers will be included in the proceedings of abstracts and full papers. The selected papers will be recommended for the publication in:

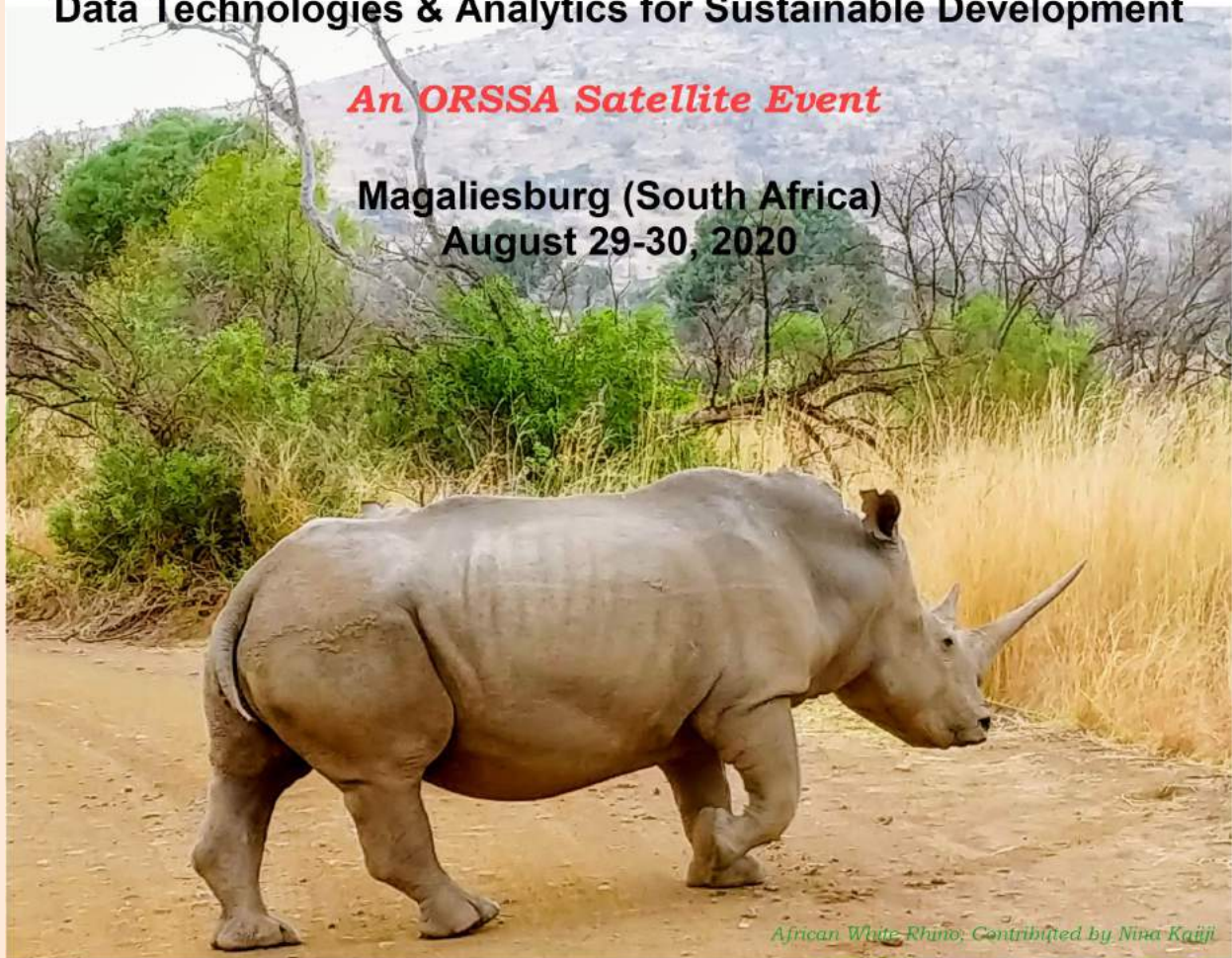
Journal of Turkish Operations Management
Journal of Engineering Sciences and Design
Sigma Journal of Engineering and Natural Sciences
Gaziantep University Journal of Social Sciences
International Journal of Optimization and Control: Theories & Applications
International Journal of Pure and Applied Sciences
Journal of Transportation and Logistics

EWG-ORD Workshop 2020

Data Technologies & Analytics for Sustainable Development

An ORSSA Satellite Event

Magaliesburg (South Africa)
August 29-30, 2020



African White Rhino; Contributed by Nina Katiji

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THE ASSOCIATION OF
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RESEARCH SOCIETIES

THE
UNIVERSITY
OF RHODE ISLAND



EWG-ORD Website: <http://bit.ly/EWG-ORD>
Email: info@ewgord.org
Submission deadline: June 1, 2020

ORSSA Conference: <http://orssa2020.com>
30 August - 2 September, 2020

Call for papers



applied sciences



an Open Access Journal by MDPI

Cyber Security, Smart Cities and Big Data Optimization in Energy Applications

Guest Editors:

Prof. Dr. Ugo Fiore
ugo.fiore@unina.it

Dr. Pandian Vasant
pvasant@gmail.com

Prof. Dr. Gerhard-Wilhelm Weber
gerhard-wilhelm.weber@put.poznan.pl

Dr. Joshua Thomas
joshua.j.thomas@gmail.com

Deadline for manuscript
submissions:
31 October 2020

Message from the Guest Editors

Dear Colleagues,

The purpose of this Special Issue on Cyber Security, Smart Cities, and Big Data Optimization is to deeply inquire, holistically reflect, and comprehensively expose the current and emerging cutting edge technology in important fields of investigation and facilities for original, innovative, and novel real-world applications of Optimization in the modern world related to the emerging areas of the Big Data, Data-based Cryptography and its emerging applications to individuals, groups, cities, countries, etc. Contributing authors of this special issue will be scientists and practitioners from all over the world; they use and further refine the deep model-based methods of mathematics and the less model-based, also so-called smart or intelligent algorithms with their roots in the engineering disciplines, in computer science, and informatics. Today, these techniques and approaches meet and interact in many centers of research all over worldwide to overcome misunderstandings and misperceptions between these two academic avenues.

Prof. Dr. Ugo Fiore
Dr. Pandian Vasant
Prof. Dr. Gerhard-Wilhelm Weber
Dr. Joshua Thomas
Guest Editors



mdpi.com/si/39515

Special Issue

Special Issue on Fuzzy Systems Toward Human-Explainable Artificial Intelligence and Their Applications
(Deadline for Submissions 31 October 2020)

1. AIMS AND SCOPE

Fuzzy systems are one of the most significant advances in computational intelligence, and have performed excellent fuzzy modelling capabilities in many data science scenarios, as they consist of human reasoning and decision models. With the cooperation between systems and algorithms based on fuzzy rules, it helps to understand further artificial intelligence, especially accuracy and interpretability in machine learning, to obtain human-explainable artificial intelligence models.

At present, the goal of artificial intelligence-based models is not only to achieve the highest possible accuracy, but also to be interpretable to its users and developers. In this sense, fuzzy systems retain the original nature of revealable intelligibility and improve their modelling capabilities, leading an advantage over other approaches in processing human-explainable artificial intelligence.

The purpose of this special issue aims to gather a series of outstanding studies on fuzzy systems toward the field of artificial intelligence explainable by human reasonings. This will provide a snapshot of the latest advances in the contribution of the emerging field of human-explainable artificial intelligence.

2. TOPICS COVERED

The list of possible topics includes, but is not limited to:

- Fuzzy logic and systems to support interpreting and explaining deep neural networks.
- Fuzzy modelling for management of information in a more human-oriented style, such as human-centric modelling and decision making.
- Fuzzy systems for the acquisition of uncertainties and vulnerabilities of artificial intelligence.
- Fuzzy modelling and reasoning for the recognition of human cognitive processes.
- Theoretical development of fuzzy-in-the-loop artificial intelligence.
- Applications of fuzzy-in-the-loop artificial intelligence.

3. SUBMISSION GUIDELINES

All authors should read 'Information for Authors' before submitting a manuscript at <https://cis.ieee.org/publications/t-fuzzy-systems/tfs-information-for-authors>

Submissions should be through the IEEE TFS journal website <http://mc.manuscriptcentral.com/tfs-ieee>.

Submissions should also be in the **correct format** <https://journals.ieeeauthorcenter.ieee.org/create-your-ieee-journal-article/authoring-tools-and-templates/ieee-article-templates/templates-for-transactions/>

It is essential that your manuscript is identified as a Special Issue contribution:

- Ensure you choose 'Special Issue' when submitting.
- A cover letter **must** be included which includes the title 'Fuzzy Systems Toward Human-Explainable Artificial Intelligence and Their Applications'.

4. IMPORTANT DATES

- Submission Deadline: **31 October 2020**
- First Review Decisions: January 2021 (for guidance only)
- Expected publication date: April 2021 (Tentative)

5. GUEST EDITORS

Dr. Zehong (Jimmy) Cao, University of Tasmania, Australia (Zehong.Cao@utas.edu.au).

Zehong Cao is a Lecturer (a.k.a. Assistant Professor) with Discipline of Information and Communication Technology (ICT), University of Tasmania (UTAS), Hobart, Australia, and an Adjunct Fellow with Faculty of Engineering and Information Technology, University of Technology Sydney (UTS), Australia. He received the dual PhD degree in Information Technology from UTS, and Electrical and Control Engineering from National Chiao Tung University (NCTU) in Taiwan. He serves as the Associate Editor of Neurocomputing (2020-), Nature: Scientific Data (2020-), Journal of Intelligent and Fuzzy Systems (2019-) and IEEE Access (2018-2019), and the Guest Editor of IEEE Transactions on Industrial Informatics, IEEE Transactions on Emerging Topics in Computational Intelligence (2019), Swarm and Evolutionary Computation (2019), and Neurocomputing (2018). He had 40+ papers published in well-known conferences, such as AAMAS, IJCNN, IEEE-FUZZY, and top-tier journals, such as IEEE TFS, IEEE TNNLS, IEEE TCYB, IEEE TSMC-S, IEEE TBME, IEEE TCDS, IEEE TII, IEEE TIA, IEEE IoT, and ACM TOMM, INS, NC, IJNS, NeuroImage and Scientific Data, of which 2 ESI highly cited papers. He was awarded UTS Centre for Artificial Intelligence Best Paper Award (2017), UTS Faculty of Engineering and IT Publication Award (2017), UTS President Scholarship (2015), and NCTU & Songshanhu Scholarship (2013). He is currently focusing on the capacity of the “Human-In-The-Loop” machine learning and applications. The personal web page can be found here: <https://czh513.github.io>

Prof. Chin-Teng Lin, University of Technology Sydney, Australia (Chin-Teng.Lin@uts.edu.au)

Chin-Teng Lin received the BS degree from National Chiao-Tung University (NCTU), Taiwan in 1986, and the Master and PhD degree in electrical engineering from Purdue University, USA in 1989 and 1992, respectively. He is currently the Distinguished Professor of Faculty of Engineering and Information Technology, and Co-Director of Center for Artificial Intelligence, University of Technology Sydney, Australia. He is also invited as Honorary Chair Professor of Electrical and Computer Engineering, NCTU, International Faculty of University of California at San-Diego (UCSD), and Honorary Professorship of University of Nottingham. Dr. Lin was elevated to be an IEEE Fellow for his contributions to biologically inspired information systems in 2005, and was elevated International Fuzzy Systems Association (IFSA) Fellow in 2012. Dr. Lin received the IEEE Fuzzy Systems Pioneer Awards in 2017. He served as the Editor-in-Chief of IEEE Transactions on Fuzzy Systems from 2011 to 2016. He also served on the Board of Governors at IEEE Circuits and Systems (CAS) Society in 2005-2008, IEEE Systems, Man, Cybernetics (SMC) Society in 2003-2005, IEEE Computational Intelligence Society in 2008-2010, and Chair of IEEE Taipei Section in 2009-2010. Dr. Lin was the Distinguished Lecturer of IEEE CAS Society from 2003 to 2005 and CIS Society from 2015-2017. He serves as the Chair of IEEE CIS Distinguished Lecturer Program Committee in 2018~2019. He served as the Deputy Editor-in-Chief of IEEE Transactions on Circuits and Systems-II in 2006-2008. Dr. Lin was the Program Chair of IEEE International Conference on Systems, Man, and Cybernetics in 2005 and General Chair of 2011 IEEE International Conference on Fuzzy Systems. Dr. Lin is the coauthor of Neural Fuzzy Systems (Prentice-Hall), and the author of Neural Fuzzy Control Systems with Structure and Parameter Learning (World Scientific). He has published more than 300 journal papers (Total Citation: 22,126, H-index: 66, i10-index: 279) in the areas of neural networks, fuzzy systems, brain-computer interface, multimedia information processing, and cognitive neuro-engineering, including about 120 IEEE journal papers. The personal web page can be found here: <https://www.uts.edu.au/staff/chin-teng.lin>.

Prof. Yong Deng, University of Electronic Science and Technology of China, China (dengentropy@uestc.edu.cn)

Yong Deng received the PhD degree in precise instrumentation from Shanghai Jiao Tong University, Shanghai, China, in 2003. From 2005 to 2011, he was an Associate Professor with the Department of Instrument Science and Technology, Shanghai Jiao Tong University. Since 2010, he has been a Professor with the School of Computer and Information Science, Southwest University, Chongqing, China. Since 2012, he has also been a Visiting Professor with Vanderbilt University, Nashville, TN, USA. Since 2016, he has been a Professor with the School of Electronic and Information Engineering, Xi'an Jiaotong University, Xi'an, China. Since 2017, he has also been the Full Professor with the Institute of Fundamental and Frontier Science, University of Electronic Science and Technology of China, Chengdu, China. Since 2017, he has also been the Adjunct Professor with the Medical Center, Vanderbilt University. He has published more than 100 articles in refereed journals. His research interests include evidence theory, decision making, information fusion, and complex system modelling. He served as the program member for many conferences such as the International Conference on Belief Functions. He served as many editorial board members such as the Editorial Board Member of Applied Intelligence and the Journal of Organizational and End User Computing. He served as many guest editor such as the International Journal of Approximate Reasoning and Mathematical Problems in Engineering and Sustainability. He has received numerous honours and awards, including the Elsevier Highly Cited Scientist in China, since 2014. The personal web page can be found here: <https://scholar.google.com/citations?user=8voeILsAAAAJ&hl=en>

Prof. Gerhard-Wilhelm Weber, Poznan University of Technology, Poland (gerhard.weber@put.poznan.pl)

G.W. Weber is a Professor at Poznan University of Technology, Poznan, Poland, at Faculty of Engineering Management, Chair of Marketing and Economic Engineering. His research is on OR, financial mathematics, optimization and control, neuro- and bio-sciences, data mining, education and development. He is involved in the organization of scientific life internationally. He

received his Diploma and Doctorate in mathematics, and economics/business administration, at RWTH Aachen, and his habitation at TU Darmstadt. He held Professorships by proxy at University of Cologne, and TU Chemnitz, Germany. At IAM, METU, Ankara, Turkey, he was a Professor in the programs of Financial Mathematics and Scientific Computing, and Assistant to the Director, and he has been a member of further graduate schools, institutes and departments of METU. Furthermore, he has affiliations at the universities of Siegen, Ballarat, Aveiro, North Sumatra, and Malaysia University of Technology, and he is "Advisor to EURO Conferences". His personal web page can be found here: https://www.researchgate.net/profile/Gerhard_Wilhelm_Weber.

Contacts

EUROPT: <https://www.euro-online.org/websites/continuous-optimization/>

People wishing to submit announcements to the EUROPT mailing list should address their message to europa.di@listgateway.unipi.it. The message will then be distributed upon approval by the EUROPT Managing Board.

For specific questions, the members of the Managing Board can be contacted:

- Paula Alexandra Amaral (Communications coordinator), paca@fct.unl.pt
- Giancarlo Bigi (Chair), giancarlo.bigi@unipi.it
- Sonia Cafieri (Newsletter editor), sonia.cafieri@enac.fr
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- Dmitri Kvasov (Events coordinator), kvadim@dimes.unical.it
- Laura Palagi, laura.palagi@uniroma1.it
- Christiane Tammer, christiane.tammer@mathematik.uni-halle.de

Editor's notes

Dear members of EUROPT, dear readers,

I am pleased to announce in this Newsletter the Call for Papers for our next EUROPT Workshop - EUROPT 2020. Despite the complicated situation that we are experiencing, related to the worldwide epidemic, we all hope that this situation will improve soon, and we are working to welcome you in Toulouse, France, from July the 1st to the 3rd, 2020. We hope to see there the most of you! Please note the extension of deadline for abstract submission and registration, and do not miss the opportunity to participate to discuss the latest developments in continuous optimization, and to take part to the celebration of the 20th anniversary of activity of EUROPT.

In this Newsletter you can also find a presentation of the recently elected EUROPT Fellow 2020, who will give the EUROPT Fellow Lecture at our EUROPT 2020 Workshop.

Some reports on events involving our community, held in 2019, are also in this letter, as well as some further Call for Papers of forthcoming events.

As always, I would like to encourage the readers to contribute to the EUROPT Newsletter sharing any valuable information for our community.
With many thanks to everybody who contributed to this Newsletter.

The Newsletter Editor

Sonia Cafieri

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sonia.cafieri@enac.fr