

Happy Student's Day

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IUT International E-Newsletter

A Window to International Activities of IUT

Volume 3, Issue No. 2

November 2021



What we read in this issue:

- IUT International News & Activities
- IUT Awards and Honors
- Opportunities



Appointment of the New IUT President

Prof. Dr. Mirmohammadi Meybodi was appointed as the Head of Isfahan University of Technology



Prof. Dr. Mirmohammadi Meybodi was appointed as the Head of Isfahan University of Technology (IUT).

Dr. Mohammad Ali Zolfigol, Minister of Science, Research and Technology, appointed Dr. Seyed Ali Mohammad Mirmohammadi Meybodi as the new head of IUT.

Dr. Mirmohammadi Meybodi holds a Bachelor's degree in Agricultural Engineering from IUT, a Master of Plant Breeding from Tarbiat Modares University, and a Ph.D. in the same field from the University of London and is currently a professor at the IUT College of Agricultural Engineering.

Presidency of Yazd University from 2006 to 2013, Vice-chancellor for Defense Affairs of IUT during the Holy Defense, Head of Basij for the faculty of Isfahan University of Technology, Head of the Plant Breeding Department of Isfahan University of Technology, and Member of the Auditing Board of Isfahan University of Technology are some of the responsibilities Dr. Mirmohammadi Meybodi has had in his academic life.

He also bears the title of "the best professor in the country", won the title of "the Book of the Year for Students", achieved third place for the award of "the Book of the Year for the Holy Defense", and also won the title of "the Distinguished Researcher" in writing and translation at IUT.

In a separate message, the Minister of Science also thanked **Prof. Dr. Seyed Mehdi Abtahi**, former President of IUT, for his services and efforts during his tenure.

Message from the Head of Isfahan University of Technology Addressed to the Academics

Prof. Dr. Seyed Ali Mohammad Mirmohammadi Meybodi, the head of Isfahan University of Technology, shared his message, plans, goals, strategy, and expectations with the academics of this university.

In his view, the change of management is handing over the flag of honor and pride of the country from one hand to another. He also thanked his predecessors in different periods, especially the honorable brother, Prof. Dr. Abtahi, for his endeavors during his tenure.

[Click here to see the full message.](#)

ICRANet-ISFAHAN Astronomy Meeting



In collaboration with ICRANet-Italy, the Department of Physics at IUT Organized the First Series of Online ICRANet-Isfahan Astronomy Meeting from November 3 to November 5, 2021. IUT virtually hosted more than **33** prominent invited speakers from more than **16** countries, among whom were **Roy Patrick Kerr** (Discoverer of the Solution to the Rotating Black Hole in 1963); **Shing-Tang Yau** (Winner of the Mathematical Fields Medal in 1982); **Claus Lammerzahl** (Director of Space Sciences of ZARM, University of Bremen); **Remo Ruffini** (President of ICRANet); **Yousef Sobouti** (Founder of Institute for Advanced Studies in Basic Sciences IASBS); **Habib Khosroshahi** (Head of the Iranian National Observatory) and many other eminent scholars.

There were more than **190** registered participants and attendees. This meeting was inaugurated with honorary support and a message from the Minister of Science, Research and Technology of the Islamic Republic of Iran, **H.E. Mohammad Ali Zolfi Gol**. He gave a very warm welcome to all the participants, highlighting his strong support for this significant event which marked the continuation of a longstanding, active, and fruitful collaboration between ICRANet and IUT and, more generally, between Italy and Iran. The speech of the Minister was presented to the participants by Prof. Yousef Sobouti.

This meeting provided a great opportunity for discussing topics ranging from ancient Persian astronomy to recent developments in observational astronomy, high energy astrophysical phenomena such as Gamma-Ray Bursts (GRBs) and Active Galactic Nuclei (AGNs), Theories of Gravity, General Relativity and its Mathematical Foundation, Black Holes, Dark Matter, and Early Universe Cosmology. There was also a workshop on "Data Science and Machine Learning in Relative Astrophysics".

For more information, we draw your attention to the special issue annexed to this newsletter.



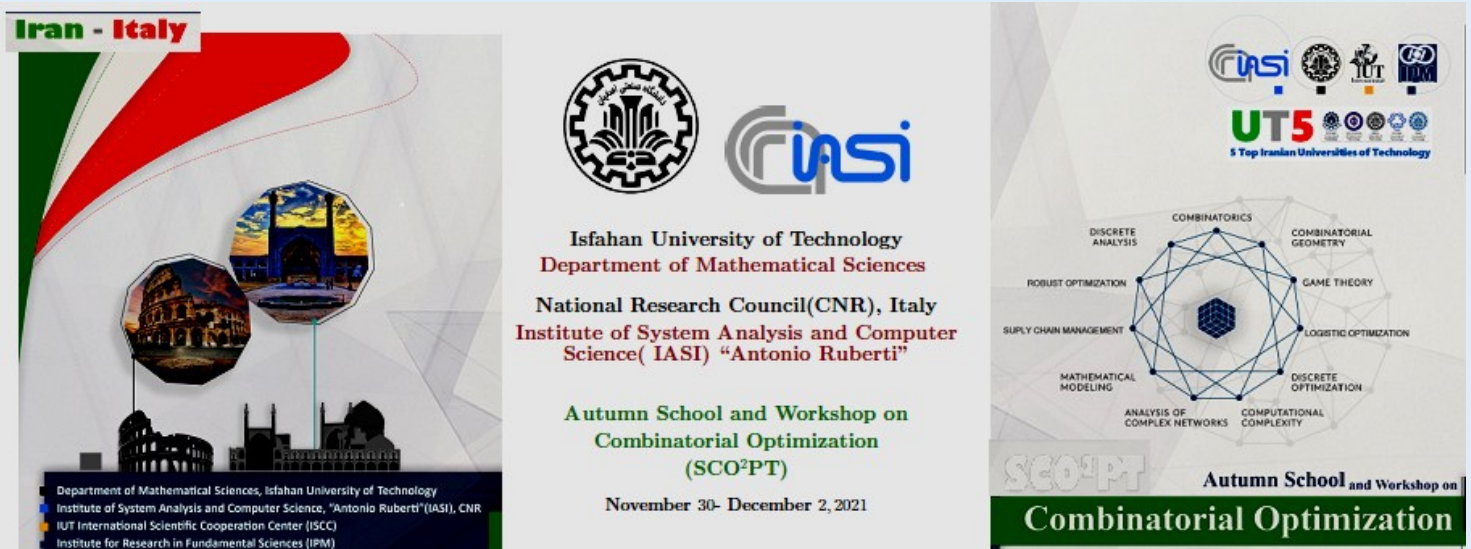
- What we read in this issue:**
- Overview on ICRANet-ISFAHAN Astronomy Meeting
 - The Welcome Speeches
 - Astronomy in Iran, an Update, 2021
 - The History of ICRANet at a Glance
 - ICRANet-Isfahan Overview
 - Celebrating the 50th Anniversary of "Introducing the Black Hole"
 - Abstracts of Lectures
 - Concluding Remarks
 - Photo Narration of the Event





Holding Webinars:

The Department of Mathematical Sciences of Isfahan University of Technology held an autumn school and workshop entitled "Combinatorial Optimization" from a series of joint international scientific events of the group of five top technological universities of the country (UT5) in collaboration with the IASI Research Institute of Italy and IPM Institute for Research in Fundamental Sciences from November 30 to December 2, 2021.



In this regard, IUT International Scientific Cooperation Center had an interview with the organizing committee from the Department of Mathematical Sciences at IUT providing more information on this event:

• **What subjects does the conference revolve around?**

The Autumn School and Workshop about Combinatorial Optimization, 2021, is the first school on combinatorial optimization organized in Iran, to cover the theoretical, computational, and practical aspects of combinatorial optimization.

• **What is the purpose of this event?**

The main aim of this school-workshop is to teach recent developments and results of the topic and discuss challenges from theory and applications of the optimization. It has been decided to organize this event into two main parts:

PART 1: "School Lectures". In this part, we invited 5 active researchers and asked them to talk about the fundamental topics of optimization interests in more detail which are necessary for the "Contributed Talks".

PART 2: "Contributed Talks". In this part, we invited 6 active researchers and asked them to give a talk about applications of optimization in projects related to the real world.

• **From which countries have the participant taken part and how many were they? Please provide a general description of the event.**



Holding Webinars

Based on a suggestion given by Dr. Maryam Salami, the Department of Mathematical Sciences at IUT and the Institute of System Analysis and Computer Science (IASI), “Antonio Ruberti”, National Research Council (CNR), Italy, decided to jointly organize an Autumn School and Workshop on Combinatorial Optimization, 2021. We had approximately 300 participants for this School–Workshop. Most of the participants are from different universities in Iran and different departments, such as the Departments of Mathematical Sciences, Electrical Engineering, Industrial Engineering, Civil Engineering, Mechanical Engineering, and Disaster Engineering among others. The diversity of the participant’s research areas and departments shows the importance of the interdisciplinary activities and research works.

Among the participants, we also had participants from the following international universities: **Lebanese University, Osmania University Hyderabad, Queen's University, TU Berlin.**

- **Who can benefit from the event?**

SCO²PT The event is advantageous for Ph.D. students, researchers, as well as industry professionals who are interested in the topic.

- **Will the Department of Mathematical Sciences have such other events?**

Yes, we hope so. Since this issue is very important in various topics, we plan to hold a series of webinars in this regard soon, which will be announced in due time.

- **Are there any other points you would like to add?**

We would like to thank the Department of Mathematical Sciences at IUT and the Institute of System Analysis and Computer Science (IASI), “Antonio Ruberti”, National Research Council (CNR), Italy, for helping us to organize the event. Also, we would like to thank Mr. Jafari for designing the brochure of the event and Ms. Sheykhi and Mr. Pouladi for designing the website of the event.

Last but not least, we would like to thank the International Scientific Cooperation Center, Isfahan University of Technology, for their support.



IUT Department of Civil Engineering

The Department of Civil Engineering of IUT held a webinar on “Treatment and Recycling of Wastewater from Textile Industry” by **PD. Dr.-Ing. habil. Harald Schoenberger**, Stand-in Professor from the Institute for Sanitary Engineering, Water Quality, and Solid Waste Management, University of Stuttgart (ISWA), on November 14, 2021.

Prof. Dr. Milad Aminzade, a faculty member of the IUT Civil Engineering Department, was the host of this event.

Treatment and Recycling of Wastewater from Textile Industry

*PD Dr.-Ing. habil. Harald Schoenberger, Stand-in Professor
Institute for Sanitary Engineering, Water Quality and Solid Waste
Management, University of Stuttgart (ISWA)*

Abstract: Treatment and recycling of textile wastewater should always be associated with production- and process-integrated measures, the careful analysis of the production processes, the inventory of wastewater streams, the environmental assessment of the applied manifold chemical products and the monitoring of important production facilities. On this solid basis, the optimum treatment processes can be developed. This will be shown including recycling of textile wastewater including the new concept of zero liquid discharge.

Harald Schönberger has been head of the Chair of Urban Water Management and Water Recycling since 2016 and is also the Managing Director of ISWA. Before his engagement at the University of Stuttgart, he had been working for the European Commission as head of the European IPPC Bureau. He started his professional career as a permit writer and inspector for large industrial installations at a regional state governmental office in Freiburg/Germany. He also worked as an independent international consultant on integrated industrial pollution prevention and control in various countries.



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IUT Awards and Honors

A Joint Project with Skolkovo Institute of Science and Technology in Moscow

The joint project by **Prof. Dr. Seyed Javad Hashemifar**, a faculty member of the Department of Physics at Isfahan University of Technology, and his colleague **Prof. Dr. Sergey Levchenko** from the Skolkovo Institute of Science and Technology in Moscow, Russia, succeeded to receive funds from the "Young Researchers Fund". This joint project aims to combine artificial intelligence technology with simulations based on quantum mechanics to quickly predict the properties of semiconductors.

Simulations based on quantum mechanics are among the most accurate scientific approaches available for calculating and predicting the properties of various materials that are used in different fields such as physics, chemistry, and materials science worldwide.

The "Iranian Fund for Support of Researchers and Technologists" and "The Russian Federation for Basic Research" support this international project. The project started in May 2021 and will last about 30 months.



Dr. Hashemifar & Dr. Levchenko - IUT Library Campus-2016

A Collaboration with the University of Graz



Ms. Ramezani

Ms. Mohadeseh Ramezani, a doctoral student at the Department of Mathematical Sciences of Isfahan University of Technology, defended her dissertation with an excellent score of 19.87.

From this dissertation, which was under the supervision of **Prof. Dr. Reza Mokhtari** and the advice of **Professor Gondolf Hase**, an IUT Adjunct Professor who is from the University of Graz, Austria since 2019, several results have been obtained including a first- and a second-quarter paper as well as presenting several papers at prestigious international conferences.



Prof. Dr. Mokhtari



Prof. Dr. Hase

Ms. Ramezani visited the University of Graz in September and October 2019 as a researcher and she was fully financed by that university. She was also sponsored by the University of Graz in 2020 to have the same visit but it was canceled due to the pandemic conditions.

IUT Awards and Honors:

The 26th Student Scientific Olympiad:

16 Students and Graduates from IUT Won Top Ranks in Technical, Engineering, and Basic Sciences



THE 26TH STUDENT SCIENTIFIC OLYMPIAD:

16 Students and Graduates from IUT Won Top Ranks in Technical, Engineering, and Basic Sciences

Ali Mirzaei 3 rd Rank Mechanical Engineering	Fatemeh Beigi 3 rd Rank Agricultural Engineering	Majed Hamadi 4 th Rank Mathematics	Parisa Mohammadi 5 th Rank Agricultural Engineering
M. Saleh Bahrami 5 th Rank Mathematics	A.M. Mansourian 5 th Rank Computer Engineering	M. Ehsan Amoo 5 th Rank Electrical Engineering	Armin Mahmoudi 5 th Rank Chemistry
Aria Validi 5 th Rank Industrial Engineering	M.Javad Maleki 6 th Rank Chemistry	Erfan Shahnazi 7 th Rank Civil Engineering	Alireza Jafari 7 th Rank Electrical Engineering
M. Javad Naghdi 8 th Rank Electrical Engineering	Mojdeh Boustanian 9 th Rank Agricultural Engineering	Ali Karimi 9 th Rank Chemical Engineering	A. Hossein Samimi 10 th Rank Chemical Engineering

In the Scientific Olympiad of the Iranian students, which was held in 2021, the IUT students succeeded in gaining brilliant ranks in their subgroups.

These talented students participate in the Scientific Olympiad along with the national entrance exam for master's degrees and answer the descriptive and conceptual questions of this exam.

In this high-level scientific competition, 16 students and graduates of IUT in the technical and engineering subgroups succeeded in obtaining brilliant ranks of 3rd to 10th.

Also, 24 other IUT students reached the final stage of the Olympiad with top ranks up to 36th in their educational subgroups. It is worth mentioning that educational facilities, including the possibility of admission without entrance exams in higher levels, financial support and scholarships, facilities of the conscription system, and benefiting from the Elite Foundation facilities are granted to the final students of the scientific Olympiad. Read more

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Geneva University runs a 10-month program called "MASTER OF ADVANCED STUDIES IN EUROPEAN AND INTERNATIONAL GOVERNANCE".

The program is run in Geneva from **September** to **June**. Geneva University has been able to secure a number of scholarships from a local sponsor. These scholarships cover mainly the tuition fees. Geneva University may also be able to arrange for partial scholarships towards living expenses during the program.

For the program starting in September 2022, there are some grants available for **Iranian** as well as for **Afghan** students.

Candidates have to send their applications until 15 November 2021, **31 December 2021 (second deadline)** or 15 February 2022 (last deadline).

For further information and registration please visit: <https://international.iut.ac.ir/en/node/1150>

In order to expand the university's international Scientific interactions with overseas academic institutions, the IUT International is publishing this electronic Newsletter on international relations and in line with the IUT mission towards a Green University.

You are invited to register your email here to receive the new issue of the Newsletter upon its publication. You can also correspond with the editorial board from here to convey your valuable comments and suggestions to send materials related to IUT to be published in future issues of the Newsletter.

To see the previous issues and more information on the newsletter, please click here.

In addition to being distributed via social networks, this Newsletter will also be available through the following QR code. Your constructive participation in this path will guide us toward our goals.



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IUT International Newsletter is a periodic E-newsletter to be distributed among IUT students and staff.

Your constructive and valuable comments and suggestions are most welcome.

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