

Der



# Newsletter

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## 1. Establishment of the IEEE Austria Young Professionals Affinity Group

IEEE Young Professionals is an international community of enthusiastic, dynamic, and innovative members and volunteers. IEEE is committed to helping young professionals, who graduated within the last decade, evaluate their career goals, polish their professional image, and create the building blocks of a lifelong and diverse professional network.

Directly after graduation, IEEE young professionals (e.g. Student Members) are automatically added to the IEEE Young Professionals member community and thus are able to benefit of the various services provided by IEEE Young Professionals.

- Benefits of the IEEE Young Professionals program include:
- Professional networking opportunities in industry and academia
- Local social activities (regulars' table, industrial visits and visits to research facilities, etc.)
- Peer connection (exchange and share your knowledge with others)
- Mentoring program
- Webinars and other interesting online content

In October 2013, the IEEE Region 8 Young Professionals Committee called for volunteers to establish an IEEE Young Professionals Affinity Group in Austria. Thomas Obermayer, Shahab Rezaei Mazinani and Christian Schmid responded to this request and planned the start-up of such a group with great support from Peter Rössler, the IEEE Austria Section Chair.



In March 2014, the inaugural meeting of the group was held at the Vienna University of Technology. Fourteen IEEE members from across the country attended the meeting and talked about future plans, officially elected the necessary officers and became acquainted with each other. After a presentation held by Thomas Obermayer, five officers were elected,

and 14 people signed the official petition required by IEEE to form an Affinity Group. Following this, the group went to a pub for a get-together.



The following officers have been elected (from left to right):

Chair: Thomas Obermayer

Vice-chair: Shahab Rezaei Mazinani

Secretary: Mostafa Moonir Shawrav

Treasurer: Mario Faschang

Counselor: Christian Schmid



We expect the official approval for the Group soon. You are welcome to visit our website (<http://www.ieee-austria.org/index.php/young-professionals>), get in touch with us at any time and enjoy the benefits of group membership.

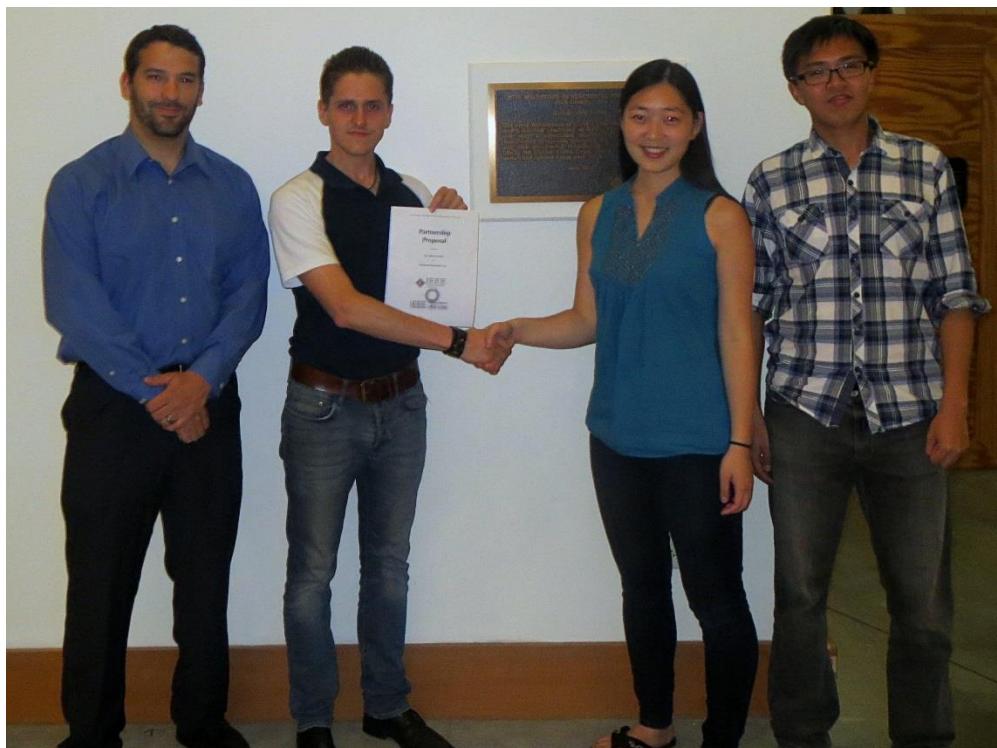
Looking forward to hearing from you!

Thomas, Shahab, Mostafa, Mario and Christian

## 2. Transatlantic Partnership between IEEE Student Branches

Two different Regions, two different Sections, two different Continents and in between the Atlantic Ocean; The IEEE Student Branch JKU Linz/Austria ([www.ieee.jku.at/](http://www.ieee.jku.at/)) and the MIT IEEE/ACM Club (<http://ieee.scripts.mit.edu/blog.php>) Boston/Massachusetts (USA) are official Student Branch Partners since August 2013.

Everything started with the Research Internship of Bernhard Gruber in Charlestown/Boston in May 2013. The 25-year-old Medical-Engineering Student from Austria is the Vice-Chairman of the IEEE SB JKU Linz and he got the chance to attend to a Boston Section Meeting. During this Meeting he presented the Austrian Branch, and he talked about the Activities and extraordinary Dynamics of the young European IEEE Sub-Branch. The Executive Committee was very happy and Robert Vice (Chairman, IEEE Boston Section) got interested on Bernhard's ideas about a possible Partnership with the local MIT Branch.



In July 2013, Bernhard got in touch with the responsible Officers Manting Lao (Publicity Chair) and Jason Yonglin Wu (Faculty Chair) of the MIT IEEE/ACM Club. After a few meetings, the common basis was found to get the Project about a Partnership between the two Branches, on line.

The overall goal of this partnership is to establish friendly connection and foster communication and exchange between IEEE Members of the two Branches and Sections.

The first time a mid-term goal of the proposal is reached, will be the excursion to CERN – The European Organization for Nuclear Research in Geneva – in September 2014. For the JKU Branch it's going to be the second time that they visit this facility.

According to the slogan of the IEEE: Advancing technology for humanity, this partnership should help the students and ongoing engineers to expand their horizon to develop new technologies. So stay tuned on the activities, upcoming exciting events, fresh ideas and new perspectives to both Branches, the Regions and for sure to each Student Member.

### 3. Kooperation zwischen Student Branches und YoungOVE

Im Juni 2014 fand der erste Kooperationsworkshop in Klagenfurt statt. Ziel des Workshops war eine verstärkte Kooperation zwischen den SBs zu diskutieren. Neben den SBs aus Graz, Klagenfurt und Linz nahmen ebenfalls Vertreter der YoungOVEs aus Graz und Wien teil. Der YoungOVE ist eine Organisation des OVEs und vergleichbar mit den Student Branches der IEEE.



Abbildung 1: Teilnehmer des Workshops des SB Klagenfurt, YoungOVE Wien, YoungOVE Graz, SB Graz, SB Linz (von links nach rechts).

Im Vordergrund stand zunächst Möglichkeiten von Kooperationen abzuwägen. An oberster Stelle steht der Erfahrungsaustausch bei gemeinsamen Treffen. Regelmäßigen Treffen messen alle Teilnehmer große Bedeutung zu, da der persönliche Kontakt, wenn nicht als Notwendigkeit, zumindest als fördernd aufzufassen ist. Hierbei nimmt der Erfahrungsaustausch eine wichtige Rolle ein. Insbesondere Erfahrungen zu typischen Aufgaben der aktiven Studierenden wie Öffentlichkeitsarbeit, Werbung neuer Mitglieder und die Organisation von Veranstaltungen, u.a. Aspekte wie das bewerben, Finanzen und die Ausrichtung, nehmen einen großen Stellenwert ein.

Neben dem Erfahrungsaustausch bei regelmäßigen Treffen scheinen insbesondere gemeinsam organisierte Exkursionen geeignet, um verstärkt zusammen zu arbeiten. Als Ergebnis des Workshops gehören drei Dinge hervorgehoben. Erstens unterstützen alle Teilnehmer eine engere Kooperation zwischen den SBs, sowie zwischen den SBs und den YoungOVEs. Zweitens ist allen bewusst, dass Anspruch und Wirklichkeit an eine Kooperation nicht automatisch einhergehen. Als Beispiel sei die Erstellung einer gemeinsame PR-Mappe angeführt. So ist anzunehmen, dass eine gemeinsame PR-Mappe die Öffentlichkeitsarbeit der SBs und YoungOVEs verbessern würde, profitierte man doch von den Erfahrungen der anderen einerseits, andererseits kann Energie in die Verbesserung derselben gesteckt werden, anstatt jeweilig eine eigene PR-Mappe anlegen zu müssen. Mag der Nutzen nachhaltig sichtbar sein, werden kurzfristige Nutzen wahrscheinlich ausbleiben. Die Motivation würde darunter vermutlich leiden.

Um diesem Problem aus dem Weg zu gehen, wurde eine gemeinsame Exkursion im Frühjahr 2015 beschlossen. Bei einem Folgetreffen am Tag der Generalversammlung in Wien, wurde München als Destination gewählt sowie Firmen zwecks Besuch gereiht. Die Aufgaben zur Organisation der Exkursion werden dabei zwischen den SBs und den YoungOVEs geteilt, Dokumente gemeinsam erstellt und überarbeitet.

Neben einer gemeinsamen Exkursion haben die IEEE SBs eine engere Kooperation bei dem IEEE Region 8 Student Paper Contest in Erwägung gezogen. Eine Zusammenarbeit hätte den Vorteil für Sponsoren attraktiver zu sein, da anzunehmen ist, dass durch mehr Wettbewerb zwischen den eingereichten studentischen Arbeiten auch die Qualität des Wettbewerbs steigt.

#### 4. OVE und IEEE unterzeichnen Partnerschaftsabkommen

Der Österreichische Verband für Elektrotechnik (OVE) erweitert sein Normen-Portfolio. Ab sofort sind die Standards des Institute of Electrical and Electronics Engineers (IEEE) über den OVE-Webshop erhältlich. Der OVE vergrößert damit sein Angebot im Bereich der internationalen Normen.

„Wir sind bestrebt, unseren Kunden den Zugriff auf ein breites Angebot an elektrotechnischen Publikationen zu ermöglichen. Der OVE festigt damit seine Position als erste Anlaufstelle für alle Belange der elektrotechnischen Normung in Österreich“, erläutert Dipl.-Ing. Christian Gabriel, Leiter der Abteilung Normung und Standardisierung im OVE.

IEEE ist der in den USA gegründete Verband von Ingenieuren aus der Elektro- und Informationstechnik und eine der weltweit führenden Standardisierungsorganisationen. IEEE-Standards betreffen verschiedene Wirtschaftsbereiche einschließlich Energieversorgung, Biomedizin und Gesundheitsfürsorge, Informationstechnologie, Telekommunikation, Transportwesen, Nanotechnologie und Datensicherheit.

Dipl.-Ing. Peter Reichel, OVE-Generalsekretär, ergänzt: „Der OVE blickt auf eine lange Kooperation mit der IEEE Section Austria zurück, die bereits 1979 begann. Wir freuen uns daher, die Zusammenarbeit mit IEEE auch auf internationaler Ebene auszubauen.“

Die IEEE-Standards können online über den OVE-Webshop unter <https://www.ove.at/webshop> bzw. per E-Mail an [verkauf@ove.at](mailto:verkauf@ove.at) bestellt werden.

Über den OVE: Der Österreichische Verband für Elektrotechnik (OVE) repräsentiert alle Bereiche der Elektrotechnik und Informationstechnik und vertritt die Interessen seiner Mitglieder sowie der gesamten Branche auf nationaler und internationaler Ebene. Seine Kerngebiete sind die elektrotechnische Normung, die Zertifizierung, die Blitzortung und Blitzforschung sowie die fachliche Aus- und Weiterbildung. Der OVE ist der offizielle österreichische Vertreter bei IEC und CENELEC, den internationalen und europäischen Normungsorganisationen für die Elektrotechnik. Der OVE steht für die Förderung der Wissenschaft, die Vertretung des Berufsstandes des Elektrotechnikers und für die Sicherheit von elektrotechnischen Anwendungen. Die Aktivitäten seiner Fachgesellschaften dienen dem Erfahrungsaustausch, dem Aufbau von Expertennetzwerken und der Imagebildung.

## 5. IEEE Xtreme Programming Competition

Austria's student branches have shown remarkable results in the annual IEEE Xtreme Programming Competition, an event where student teams of three have to solve finicky programming tasks over a duration of only 24 hours – sleep being optional.

At the previous iteration, IEEE Xtreme Programming Competition 8.0 the teams from TU Graz and Alpen-Adria-Universität Klagenfurt showed that they can code. For teams, MightyMightyPirates (Graz), ParanoideRasselbande (Klagenfurt), Oxbad (Klagenfurt) and NullPointerException (Graz) made it under the top 100 out of 1726 teams.



Foto: Markus Quaritsch

The next IEEEXtreme 9.0 will be held on 24 October 2015 starting at 00:00:00 UTC. Registration will be open between 17 August 2015 and 12 October 2015, go to [www.ieee.org/xtreme](http://www.ieee.org/xtreme) for registration.



## 6. Früh übt sich... Scratch Day 2015 in Klagenfurt

Am Samstag, den 9. Mai 2015 trafen sich Kinder und Erwachsene zum zweiten Mal an der Alpen-Adria-Universität Klagenfurt um den internationalen „Scratch Day“ zu zelebrieren. Das Event wurde von der Alpen-Adria-Universität Klagenfurt und dem IEEE Student Branch Klagenfurt organisiert. Der „Scratch Day“ wurde am Massachusetts Institute of Technology (MIT) ausgerufen, wo die die Kind- und Einsteigergerechte Programmieroberfläche „Scratch“ erfunden wurde. Scratch ist eine einfach zu erlernende Programmiersprache welche Befehle grafisch als Puzzleblöcke darstellt. Dies ermöglicht bereits im Volksschulalter einen intuitiven Zugang zum Programmieren. Scratch funktioniert online in jedem Webbrowser (<http://scratch.mit.edu>) und wird frei von jedweder Gebühr angeboten.

Gemeinsam mit dem Scratch Day wurde in Klagenfurt auch eine Veranstaltung zum Girls Day abgehalten, bei dem es darum geht, Mädchen auf interessante technische und naturwissenschaftliche Ausbildungs- und Berufsmöglichkeiten hinzuweisen.



Der Scratch Day 2015 in Klagenfurt bot den ca. 50 BesucherInnen ein vielfältiges Programm, bei dem es neben Scratch auch um Mathematik, Robotik, Programmieren von mobilen Apps und die Programmierung von Abenteuergeschichten ging.



## 7. Amateur Radio Lectures in India

After my previous journey to India in September 2013, I could not wait more for the next visit to that fascinating country in IEEE Region 10. As usual, my travels are connected to conference activities, however to make this self-funded voyage more cost-effective, I decided to start with a 2-day session on 'Amateur Radio Digital Information and Communication Technologies', kindly organized with Surdar Vallabhai National Institute of Technology in Surat (Figure 1). NIT Surat is one of the most prestigious institutions of its kind in the state of Gujarat. I was lucky enough to have technical assistance and presenting support by Huzefa Merchant, VU2HIT, a Mumbai-based Indian 'ham' (= radio amateur) who happened to come to Surat for his family visit, (Figure 2).



Fig. 1.



Fig. 2.

I was really privileged to share a part of my lecture with Mr. Merchant because he was more familiar with Indian radio regulations and local practices. Thankfully to Prof. Mrs. Upena Dalal (Figure 3, front raw, the third on the right in red dress), several female students were also in the audience. In opposite to many western countries, it seems that Asian schooling in technology does not suffer from the known phenomenon of decreasing interest for technical education in girls and women.



Fig. 3.



Fig. 4.

Besides technical aspects of my stay, I had a chance to observe busy streets of Surat – occupied by local citizens celebrating a national holiday (Fig. 4), and to taste delicious Indian food in the NIT's guesthouse (Fig. 5). In addition, it was interesting to learn about nice custom where several families in the neighborhood of Prof. Dalal regularly gather together to cook a kind of doughnuts on an open fire oven (Figure 6).



Fig. 5.



Fig. 6.

The main event of my journey started a couple of days later. At first, I had to take some long flights to reach Hyderabad area. Thankfully to the organizational support of Mohan Ram, VU2MYH, (Figure 8, first on the left), director of National Institute of Amateur Radio (NIAR), the one of the most influencing amateur radio groups in the country, I conducted a tutorial session with 11th International Conference on Wireless and Optical Communications Networks (WOCN 2015), organized at KL University in Vijayawada, and supported by IEEE Hyderabad Section. Being a newly-appointed capital of Andhra Pradesh state, and despite visible investments in modern student housing at KLU (Figure 7), Vijayawada city is yet to be

recognized by foreign researchers. To help in this, local newspapers paid full attention to our amateur radio presentation (Figure 8).



Fig. 7.



Fig. 8.

Although being located some half an hour from the inner city area, KLU is full of young and seasoned technologists, and is surrounded by a plenty of greenery and has an excellent position for establishing an amateur radio relay station (Figures 9 and 10).



Fig. 9.



Fig. 10.

As expected, the organizational committee had ensured a colorful conference banquet with local folklore performers taking role in the evening program, and a bunch of thrilled guests made queues at dinner & ice-cream lines (Figures 11 and 12).



Fig. 11.



Fig. 12.

After returning back to Hyderabad – recently appointed as capital of Telangana state, NIAR organized two more lectures. The first was held at Gokaraju Rangaraju Institute of Engineering and Technology (GRIET, Fig. 13), where the practical part of the session was performed by Jose Jacob, VU2JOS, deputy director of NIAR, (Fig. 14, on the right).



Fig. 13.



Fig. 14.

Day ended by visiting one of the locally favored coffee-tea-pastry shops in downtown Hyderabad (Figure 15). The following day was also busy with the session at Department of Electronics and Communication Engineering, at Vardhaman College of Engineering. The overall logistic was organized by N.Venkatesh, vice chair of IEEE ComSoc/SPS Hyderabad Joint Chapter, and after inaugural words by Prof. Zafar Ali Khan of Indian Institute of Technology Hyderabad, (Figure 16, sitting second from the right), Mr. Mohan Ram and myself took the rest of the talks.



Fig. 15.



Fig. 16.

The room was fully occupied by students and staff (Figure 17). Unfortunately, that part of India suffers severely from electricity blackouts, so our program was interrupted for several times. To compensate, we prolonged the session for about one hour, and had to cancel a planned visit to IIT Hyderabad. A couple of days later, another two-day workshop was scheduled with Department of Telecommunication Engineering at BMS College of Engineering in Bangalore, thankfully to joint efforts of Dr. Srinivas Talabattula, chair of IEEE ComSoc Bangalore Chapter, BMSCE officials, and Mr. Munir Mohammed, program specialist at IEEE India office in Bangalore (Figure 18, left).



Fig. 17.



Fig. 18.

The next stop in my journey was Chennai (former Madras). The main event was a lecture at SRM University (Fig. 19), located approximately 45 minutes by car from the urban city area. The first day I was a special guest of IEEE Madras Section, by having a lecture introduced by

Prof. Rama Rao from SRM. Next day was Sunday, so a group of local students kindly offered me the train ride to a historical site (Fig. 20 and 21).



Fig. 19.



Fig. 20.



Fig. 21.

Before I left Chennai, I wanted to learn some more about that part of India. Escorted by a local 'ham' on a motorbike, I visited Gallery of Contemporary Art – a part of large museum complex (Figures 22 and 23), and instead of a 'Thank You' note I gave another lecture to the members of a local amateur radio club, (Figure 24).

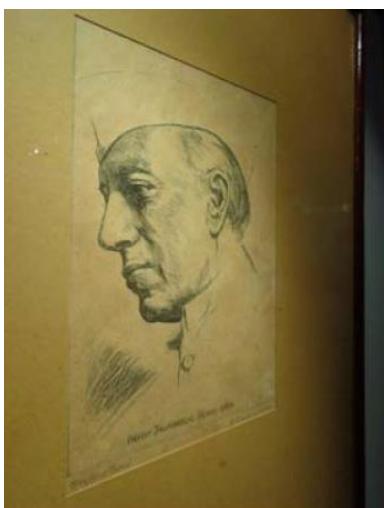


Fig. 22.



Fig. 23.



Fig. 24.

The final portion of my journey included three educational institutions in Gwalior city, placed in the middle of Madhya Pradesh state. Thankfully to Prof. Srivastava (Fig. 25, left), and Jayant S. Bhide, VU2JAU, the local amateur radio leader (Fig. 26) and his friends, the first activity was conducted with students and staff of Indian Institute of Information Technology and Management (IIITM Gwalior, Fig. 27).



Fig. 25.



Fig. 26.



Fig. 27.

The Institute is one of the most remarkable of its kind. I was accommodated in their VIP guest house, and Ashok the housemaster was the great chef, (Fig. 28, 29, 30).



Fig. 28.



Fig. 29.



Fig. 30.

The next session was performed in front of the young audience at Gwalior Glory High School, (Figures 31-32). Thankfully to hospitality of the school's Principal (Fig. 33, sitting on the right), we ended our visit by a tea talk.

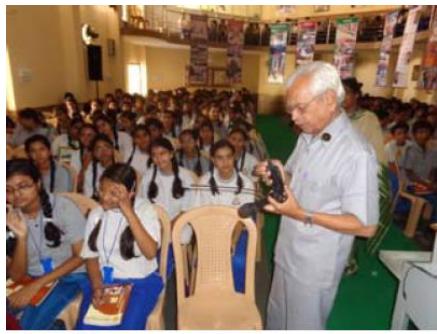


Fig. 31.



Fig. 32.



Fig. 33.

The afternoon's session was done with Department of Electronics & Communication Engineering at IPS College of Technology & Management. Once again, it was encouraging to see many female students in the room. The future seems to be bright.



Fig. 34.



Fig. 35.



Fig. 36.

To finalize this story, I can assure you that Indian education is eager for novelties and challenges of many kinds. They are not reluctant to ask for more. It is obvious that there will be more amateur radio tutorials and workshop sessions in years to come. One of the plans includes establishing an 'international conference on the amateur radio in education', as well as various events in form of 'summer schools'. In that direction, many people mentioned in this report (and some others who were not listed here) addressed open calls for prospective participants in such events. Should you want to collaborate please do not hesitate to get in touch.

Miroslav Skoric, skoric@ieee.org

# WISES 2015

## 12° Workshop on Intelligent Solutions in Embedded Systems

Università Politecnica delle Marche, Ancona, Italy, October 29-30, 2015

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### Call for papers

Embedded systems have an increasing importance in our everyday lives. The growing complexity of embedded systems and the emerging trend to interconnections between them lead to new challenges. Intelligent solutions are necessary to overcome these challenges and to provide reliable and secure systems to the customer under a strict time and financial budget.

WISES 2015 is a platform for presentation of innovative approaches that provide intelligent solutions in embedded systems. The objective of this workshop is to present mature approaches and to provide a forum for the exchange and discussion of ideas, and thus, the sharing of experiences among researchers, practitioners, and application developers both from industry and academia. Original papers addressing both theoretical and practical aspects of embedded systems are solicited. Papers describing prototype implementations and deployments of embedded systems are particularly welcome. In order to provide young researchers a forum to exchange their ideas WISES 2015 will include a special session for PhD-Students.

Topics of interest include, but are not limited to:

#### Design and Prototyping

**Embedded Systems Architecture:** Multicore SoC (e.g. homogeneous, heterogeneous MPSoC) - Memory systems and optimization in embedded systems - On-chip buses and point-to-point networks - Application-specific (e.g. ASIPs, hardware accelerators) - Architectures and tools for reconfigurable computing

**Software for single or multi-core embedded systems:** Applications and systems software (e.g. drivers, communication libraries) - Real-time operating systems and middleware in embedded systems

**Tools and methodologies for analysis, exploration and validation:** Cost-efficient and power-aware embedded system design - Fault tolerance, reliability and security in embedded systems - Real-time embedded systems - Debugging and profiling techniques and tools

**Prototype platforms, applications and case studies:** Next generation networking and mobile/wireless technology - Sensor networks and related hardware/software platforms - Embedded systems with ambient intelligence and pervasiveness - Reconfigurable computing - Evolvable hardware - self-organizing embedded systems - Energy harvesting and storage

#### Applications

**ICT for Automotive:** System-level design of HW/SW in-vehicle architectures - Tools to address the requirements for automotive electronic design - integration of different communication buses (like CAN, MOST, FlexRay and Ethernet) - Security - Safety critical, driver assistance and comfort related applications - Electromobility - Battery management systems - Integration of Electric Vehicle in smart grids.

**ICT for Healthcare:** ICT for health and ageing well, inclusion and governance - bio vital raw data capturing, body area networks, ECG and EEG signal processing, bio vital data filtering and pattern recognition, real time data analysis.

**ICT for Agriculture:** Embedded systems and technologies for feeding the planet (EXPO2015)



#### Submission instructions

The working language of the conference is English. Prospective authors are invited to submit new original research papers of 4-6 pages (2 columns IEEE format). Submissions will only be accepted electronically via WISES homepage in PDF format. All submitted papers will be peer-reviewed.

Accepted papers will be published in printed proceedings with ISBN.

The papers will be made accessible via IEEEExplore (pending approval).

The authors will be invited to submit an extended work to the EURASIP Journal on Embedded Systems: Special Issue on "Intelligent Solution in Embedded Systems".

**Submission web site:** <https://easychair.org/conferences/?conf=wises2015>

#### Important deadlines and dates

Manuscript Submission Final Deadline: September 27, 2015

Notification of Acceptance: October 7, 2015

Camera-Ready Paper Submission: October 14, 2015

Workshop: October 29-30, 2015

for info: [wises2015@univpm.it](mailto:wises2015@univpm.it)

<http://www.dii.univpm.it/wises2015>

**38<sup>th</sup> INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS AND SIGNAL PROCESSING**

**tsp 2015** **IEEE** **CZECHINVEST**

**JULY 9-11, 2015, PRAGUE, CZECH REPUBLIC**

*IEEE Conference Record #35766*

**FINAL DEADLINE EXTENSION: FEBRUARY 28, 2015 – 11pm GMT +01:00**

The 2015 38<sup>th</sup> International Conference on Telecommunications and Signal Processing (TSP) will be held during **July 9-11, 2015** in **Clarion Congress Hotel Prague\*\*\*, Czech Republic**. In cooperation with the IEEE Czechoslovakia Section SP/CAS/COM Joint Chapter, it is organized by eight European universities from Czech Republic, Hungary, Turkey, Poland, Slovak Republic, and Slovenia for academics, researchers, and developers and it serves as a forum to promote the exchange of the latest advances in telecommunication technology and signal processing. The aim of the TSP 2015 Conference is to bring together both novice and experienced scientists, developers, and specialists, to meet new colleagues, collect new ideas, and establish new cooperation between research groups from universities, research centers, and private sectors from the whole Europe, America, Asia, Australia, and Africa.

#### TOPICS

##### Telecommunications:

- Information Systems
- Network Services
- Network Technologies
- Telecommunication Systems
- Modelling, Simulation and Measurement

##### Signal Processing:

- Analog Signal Processing
- Audio, Speech and Language Processing
- Biomedical Signal Processing
- Digital Signal Processing
- Image and Video Signal Processing

#### PROCEEDINGS

All accepted papers will be published in the TSP 2015 Conference Proceedings issued on USB drive. The Proceedings with presented papers will be submitted for indexing in **IEEE Xplore® digital library** - **IEEE Conference Record #35766, Conference Proceedings Citation Index (CPCI)** of Thomson Reuters, **SCOPUS**, **DBLP**, and **Google Scholar** databases. **Selected papers will be published in special issues of international journals.**

#### IMPORTANT DATES

**Paper Submission:** February 5 28, 2015

**Notification of Acceptance:** April 10, 2015

**Authors' Registration:** May 24, 2015

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