



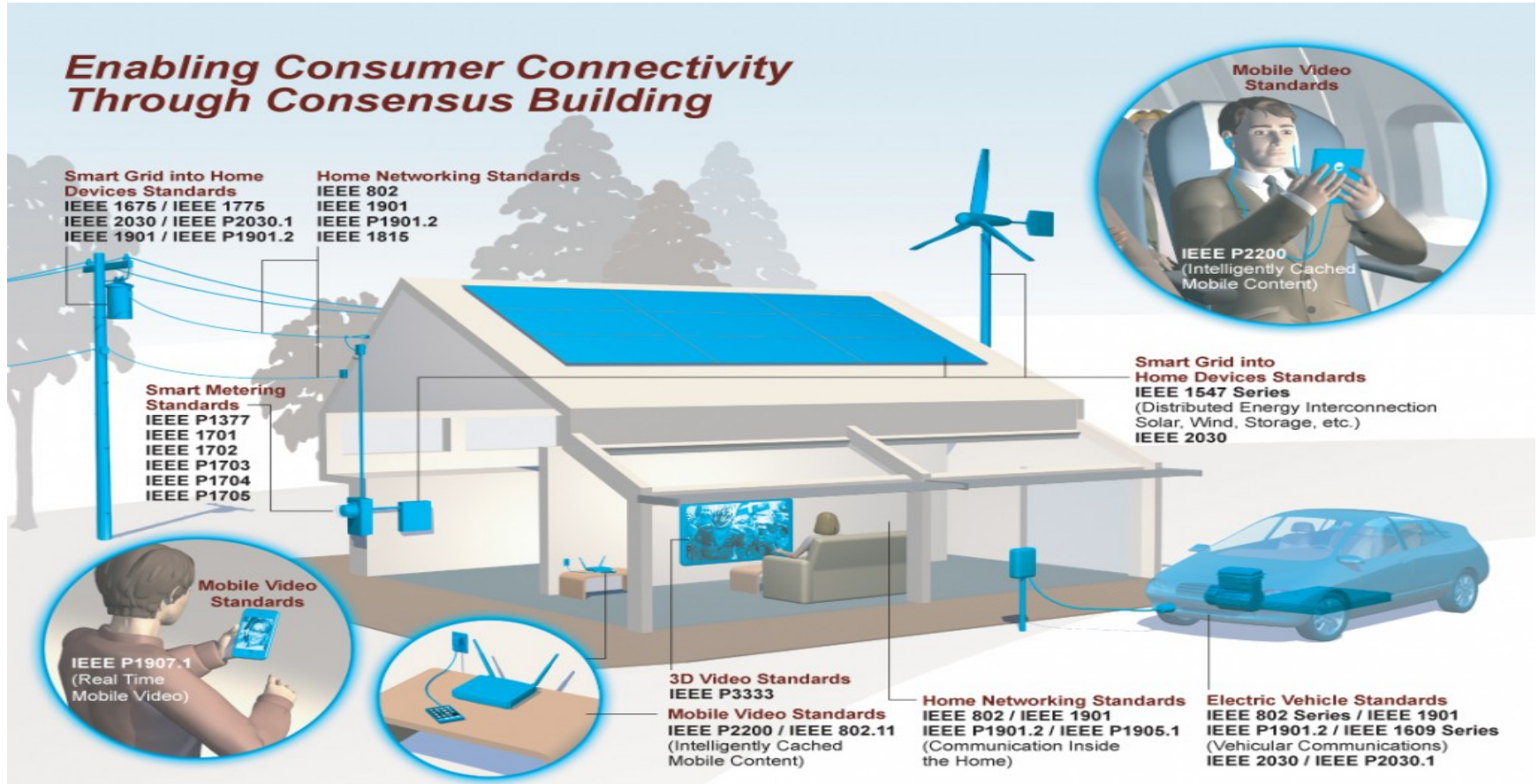
# Young Professionals Affinity Group of Bulgaria

Dr. Yancho Todorov - Chair



# What is IEEE ?

## Enabling Consumer Connectivity Through Consensus Building



IEEE STANDARDS ASSOCIATION



# What is IEEE ?

- ▶ IEEE is the world's largest non-profit professional association for engineering dedicated to advancing technological innovation and excellence for the benefit of humanity.
- ▶ IEEE is designed to serve professionals involved in all aspects of the electrical, electronic and computing fields and related areas of science and technology that underlie modern civilization.
- ▶ It was formed in 1963 by the merger of the Institute of Radio Engineers (IRE, founded 1912) and the American Institute of Electrical Engineers (AIEE, founded 1884).
- ▶ It has the most members of any technical professional organization in the world, with members in around 160 countries.

# What is IEEE?



**Region 1 to 6 (America)**

**Region 8 (Africa, Europe, Middle East)**

**Region 7 (Canada)**

**Region 9 (Latin America)**

**Region 10 (Asia and Pacific)**

# Resources of IEEE - Publishing

## ► Publishing:

- IEEE is by far the most-cited publisher of new patents, IEEE journals and conference proceedings.
- IEEE produces 30% of the world's literature in the electrical and electronics engineering and computer science fields, publishing well over 100 peer-reviewed journals.
- The **IEEE Xplore® digital library** provides access to over 3 million documents including research articles, standards, transactions and conference publications.

<http://ieeexplore.ieee.org>

# Resources of IEEE - Publishing

## ► Publishing:

- IEEE members have free access to E-books Classics (without additional subscription cost) to more than 299 eBooks from the IEEE Press collection through **IEEE Xplore®**. The eBook collection spans a number of today's technologies across 15 different content areas.
- IEEE and John Wiley & Sons, Inc., have partnered to offer you online access to more than 700 eBooks via the **IEEE Xplore® digital library**, as well.
- The IEEE-Wiley eBooks Library focuses on the content areas that lead today's cutting-edge technologies and help set the standards for future advancements.

# Resources of IEEE - Publishing

the institute

Computer

IEEE potentials

IEEE MultiMedia

the micro

SSCS  
IEEE SOLID-STATE CIRCUITS SOCIETY NEWS

IEEE Circuits and Systems

control systems

IEEE GEOSCIENCE and REMOTE SENSING  
Newsletter

women engineering

IEEE PULSE

computing  
SCIENCE & ENGINEERING

Internet Computing

Software

IEEE Industrial Electronics



IEEE VEHICULAR TECHNOLOGY

IEEE Industry APPLICATIONS

Intelligent Systems

IT Professional

IEEE NANO TECHNOLOGY

IEEE Technology and Society

IEEE microwave

# Resources of IEEE - Conferences

- ▶ IEEE publishes more than 1,100 leading-edge conference proceedings every year.
- ▶ These conferences are recognized by academia and industry worldwide as the most vital collection of consolidated published papers in electrical engineering, computer science, and related fields.
- ▶ The papers are authored by innovators of today's top emerging technologies.



# IEEE Standard Association

- ▶ IEEE is a leading developer of industrial standard with a portfolio of more than 900 active standards and more than 400 standards in development.
- ▶ IEEE standards affect a wide range of industries including: power and energy, biomedical and healthcare, Information Technology (IT), telecommunications, transportation, nanotechnology, information assurance, and many more.
- ▶ The IEEE-SA cooperates with standards developing groups throughout the world in preparing standards encompassing areas of interest within the IEEE.

<http://standards.ieee.org/>

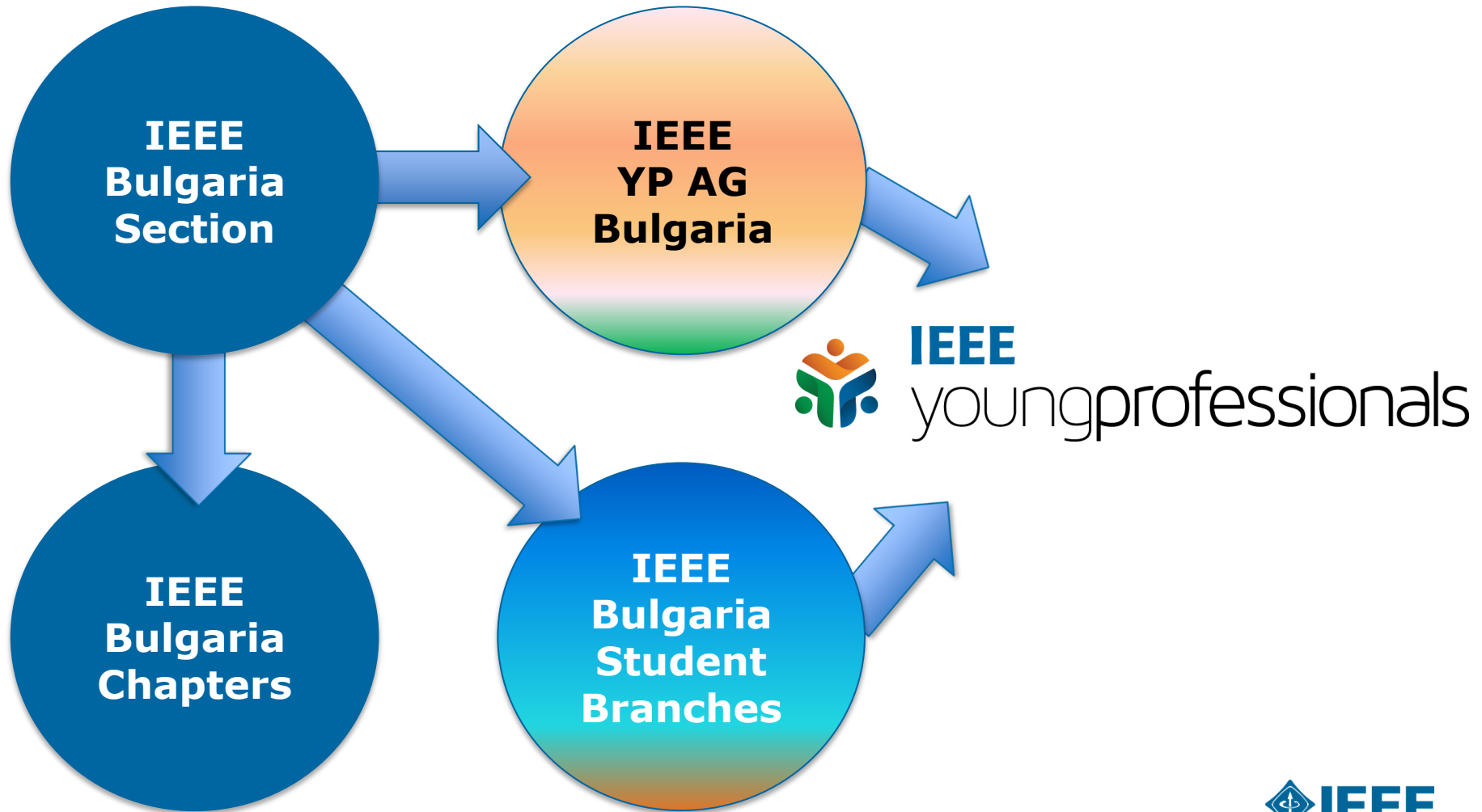
# IEEE in Bulgaria

- ▶ The **IEEE Bulgaria section** has been founded in 1995 and this year celebrates its **20<sup>th</sup> anniversary!**
- ▶ Within the IEEE Bulgaria section exist:
  - **8 Chapters**
  - **1 Student Branch**
  - **newly established Young Professionals Affinity** group

# Positioning of YP AG

- ▶ **IEEE Young Professionals** is an international community of enthusiastic, dynamic, and innovative members and volunteers. IEEE is committed to helping young professionals evaluate their career goals, polish their professional image, and create the building blocks of a lifelong and diverse professional network.
- ▶ Affiliation with **IEEE Young Professionals** is open to **Graduate Students** and **higher grade members** with early career interests at no additional cost.
- ▶ **IEEE Young Professionals** provides career advantage resources and helps members leverage the power of the global network through its expanding Affinity Groups and volunteer opportunities.

# Positioning of YP AG



# Resources of YP AG

## › Membership includes:

- Access to the global **IEEE Young Professionals** network and events.
- Webinars on professional development, technical topics and humanitarian initiatives.
- Monthly tools and tips introducing career based products and new focus areas of the **IEEE Young Professionals** .
- Local technical activities: conferences, seminars and workshops related to business/academia achievements.

# Benefits of joining the YP Community

## ➤ Keeping Technically Current

- IEEE has the means for you to remain technically current through award winning publications, and technical societies.
  - **e-Book Classics, IEEE Xplore® Digital Library, IEEE Standards, IEEE.tv, Conference Proceedings, Societies Membership**

## ➤ Career Resources and Recognition

- You can keep your career moving in the right direction with IEEE career benefits and resources.
  - **myIEEE, Resume Lab, IEEE Job Site, Student Awards, Scholarships, Fellowships, Certification Portal**

# Benefits of joining the YP Community

## ➤ Professional Networking

- With other IEEE members who share similar interests, every member can build a network revolving around your profession, industry or projects.
  - **IEEE Conference discounts, GoogleApps@IEEE, Online Communities**

## ➤ Continuing Education

- Keep growing with IEEE continuing education benefits and other educational opportunities available to IEEE members. These resources allow you to acquire new skills and advance your professional development.
  - **Student/ Professional Travel Grants**

# Benefits of joining the YP Community

## › **IEEE Young Professionals webinars**

- IEEE Young Professionals host webinars on a variety of topics including the job search, professional development, and humanitarian initiatives. These webinar sessions are recorded for on-demand viewing and offered to the community as a member benefit.

## › **Volunteer and leadership development**

- Volunteers are an essential part of the IEEE organization. IEEE is always looking for members interested in participating, planning, organizing, and leading projects that give back to the organization and the profession.



# YP activities & resources

- › **STEP program** (Student Transition and Elevation Partnership)-facilitating the transition from Student member to young professional.
- › **Seminars & Lectures** (including IEEE funding for invitation internationally recognized outstanding speakers)
- › **Meetings, Social Events and Gatherings**
- › **Soft Skills workshops** (communication and interpersonal skills , managing people, leadership competences)
- › **Industrial visits**

***Funding is available through various IEEE programs and sponsors!***

# Bulgarian YP – The beginning

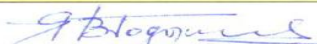
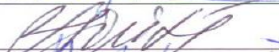



- On **2<sup>nd</sup> of December 2014**, 11 Bulgarian IEEE Members have decided to fill out a petition to establish a novel Young Professionals Affinity Group.

## PETITION TO FORM AN IEEE AFFINITY GROUP

Name of IEEE Section/s or Council: IEEE Section Bulgaria

Please specify type of Affinity Group:  Young Professionals  
 Women In Engineering  
 Consultants Network  
 Life Member

We, the undersigned, who are members of the above Section/Council, and are IEEE members above Student grade, hereby petition for approval to form an Affinity Group in the Section indicated above.

Signature of Petitioner	Member Number	Printed Name
1. 	80448877	Mancho Todorov
2. 	91164998	Vassia Atanasova
3. 	90891837	Angel Marchev, Jr.
4. 	92721756	Gergana Lazarova
5. 	80161435	Tsvetan Filev

# Bulgarian YP – The beginning

- ▶ On **3<sup>rd</sup> March 2015** (The National Holyday of Bulgaria) an official approval by IEEE R8 and MGA has been received!



**Cecelia Jankowski**  
Managing Director  
Member and Geographic Activities  
Phone +1 732 562 5504  
Fax +1 732 981 1591  
c.jankowski@ieee.org

05 March 2015

YANCHO TODOROV  
INST. OF INF. AND COMM. TECHNOLOGIES  
ACAD. G. BONTCHEV ST., BLOCK 2, FLOOR 5  
ROOM 526  
1113 SOFIA  
BULGARIA

Dear Yancho Todorov:

Congratulations! On behalf of the IEEE Member and Geographic Activities Vice President, Lawrence W.C. Wong, it is a pleasure to inform you that the requirements of the MGA Board Operations Manual have been met, and the IEEE Bulgaria Section, Young Professionals Affinity Group has been formed. The effective date of this affinity group formation is 03 March 2015.

You have been recorded as Affinity Group Chair. When an election has been held, please report the name and member number of the new Affinity Group Chair to the IEEE using the online Officer reporting tool at [www.officers.vtools.ieee.org](http://www.officers.vtools.ieee.org). Valuable information regarding IEEE Affinity Groups can be found at <http://www.ieee.org/go/affinity>. If we can assist you in any way in the planning of the affinity groups activities, please let us know.

We extend our best wishes for the successful operation of this affinity group.

Sincerely,

  
Cecelia Jankowski  
Managing Director  
Member and Geographic Activities



# The Founders – Who we are?



**Yancho Todorov** graduated the Bachelor's degree in Department of Control Systems, at the Faculty of Electronics and Automation, the Technical University–Sofia, branch Plovdiv, Bulgaria in subject of "Automation, Information and Control Systems". Afterwards, he continued his education in the Master degree at the same subject and graduated in 2005. During his studies, he specialized in intelligent control methods, theory and applications.

In 2010, he defended a Ph.D. thesis, concerning the application of Predictive Control on Lyophlization plants in Institute of Cryobiology and Food Technologies part of Agricultural Academy of Bulgaria. From the beginning of 2013, he is with the Institute of Information and Communication Technologies, Bulgarian Academy of Sciences .

Currently, he serves as **Chair Interim**, during the procedure for registration of **IEEE Young Professionals Affinity Group of Bulgaria**.



**Angel Marchev, Jr.** considers himself a fusion of thought explorer and a digital native. He is also a coeval and a very good friend to the personal computer for the last 35 years.

Angel has graduated in finance at the University for National and World Economy as a merit student. He later finished master degree in corporate finance at the Burgas Free University. He pursued a career as a Bank analyst but found it is too formalistic and not enough challenging. Angel is a PhD in applications of computer simulations in business and investment. He has specialized in Risk theory with European mathematical society.

Angel is one of the founders of **IEEE Young Professionals Affinity Group of Bulgaria**.

# The Founders – Who we are?



**Delyan Genkov** received a Master degree in Computer engineering from the Technical University Gabrovo in 1995, and a doctoral degree in 2010 in subject of Computer systems, complexes and networks from the same university. Dr. Genkov was the first Cisco Networking Academy instructor in Bulgaria since 1999. Now he is Instructor Trainer, Academy Instructor and Main Contact of the Cisco Networking Academy and Instructor Training Center at the Technical University – Gabrovo.

He holds many world-recognizable certifications in the field of Computer networks and systems. His research works are dedicated to Computer Networks, Internet technologies and Network Security. Currently, Dr. Genkov is an Associate Professor in Computer Systems and Technologies Department at the Technical University of Gabrovo.

Delyan is one of the founders of **IEEE Young Professionals AG of Bulgaria**.



**Vladimir Kotev** received a Master degree in Mechanical engineering from the Technical University Sofia in 2002. Afterwards, he received a doctoral degree in 2008 in subject of Biomechanics from the Institute of Mechanics – BAS, Bulgaria. In the period 2011-2013 he was a postdoctoral researcher in medical robotics at the Kawasaki and Mouri laboratory at Gifu University – Japan.

His research works are dedicated to design, dynamics, simulation and control of robots and mechatronic systems with industrial and biomedical applications. Currently, Dr. Kotev is an assistant professor at the Mechanics of Discrete Systems Department at the Institute of Mechanics – Bulgarian Academy of Science. He has 49 scientific papers, as well as in a patent.

Vladimir is one of the founders of **IEEE Young Professionals AG of Bulgaria**.

# The Founders – Who we are?



**Tanya Gachovska** received her B.Sc., M.Eng., and Ph.D. Degrees, all in Electrical Engineering, from the University of Ruse, Bulgaria, in 1994, 1995 and 2003, respectively. She earned her second Ph.D. Degree in Electrical Engineering (Power Electronics), at the University of Nebraska-Lincoln, Lincoln, USA in 2012. Her Ph.D. thesis was "Modeling of Power Semiconductor Devices".

She worked as a Postdoctoral Research Scientist in the area of Pulsed Electric Fields at UNL from 2012 to 2013. During her Ph.D. Studies at UNL, she taught various courses and labs, and continued a collaboration in Pulsed Electric Fields research with McGill University, University of Ruse, UNL, University of Djiali Liabes, Sidi Bel Abbes, Algeria and ÉNSA, El Harrach, Algeria. She joined Solantro Semiconductor, Corp., Canadian Office in Ottawa in 2013.

Tanya is one of the founders of **IEEE Young Professionals AG of Bulgaria**.



**Vassia Atanassova** was born in Sofia. She graduated from Sofia University "St. Kliment Ohridski" - bachelor of informatics (2004), and received a Master degree in Marketing, University of National and World Economy with a master thesis on the marketing strategies of open source and free software (2009). In 2013, she completed her PhD studies in mathematical modeling in IICT-BAS, Bulgaria, and is currently working in the "Bioinformatics and Mathematical Modeling" Dept. of the Institute of Biophysics and Biomedical Engineering, BAS.

The area of her research interests includes generalized nets modeling, intuitionist fuzzy sets ad logics, and decision making under uncertainty. She is also interested in various technical, content and community aspects of Wikipedia and wiki technologies.

Vassia is one of the founders of **IEEE YoungProfessionals Affinity Group of Bulgaria**.

# The Founders – Who we are?



**Gergana Lazarova** studied at the High Mathematical School of Plovdiv "Akad. Kiril Popov". Since high school, she has had interest in new technologies and innovations. She graduated from Sofia University "St. Kliment Ohridski" - master of informatics (Artificial Intelligence). Currently, Gergana is a PhD student and a teaching assistant at Sofia University and specializes in the field of semi-supervised learning and data mining.

She thinks that the future of state-of-the-art innovations lies in the processing of "Big Data", extracting hidden patterns and information. Gergana is also working as a C++ software engineer and a mathematician in the casino gambling industry, which gives her the opportunity to combine both a scientific and private sector career.

Gergana is one of the founders of **IEEE Young Professionals AG of Bulgaria**.



**Krasimir Tonchev** received the B.Sc and M.Sc. degrees in the subject of Telecommunications and Computer Vision respectively from the Technical University-Sofia, Bulgaria. Currently, he is PhD student in the same university and also pursuing his second Master degree in Applied Mathematics in Faculty of Mathematics and Informatics, Sofia University.

He has strong experience in the field of image processing including development of algorithms for Nokia camera phones and also participated in multiple European projects for innovation in the field of forensics and e-Health. He has led the development of multiple computer vision systems implemented in the industry. The area of his research interests includes Computer Vision, Image Processing, Brain-Computer and Human-Computer interface, Mathematical Optimization.

Krasimir is one of the founders of **IEEE Young Professionals AG of Bulgaria**.

# The Founders – Who we are?



**Tsvetan Filev** graduated the Secondary Vocational School for audio, video and telecommunications "A.S. Popov-Sofia in 1998 as Technician in Audio/Video technique. Afterwards, he completed the Bachelor degree in Audio/Video technologies at Technical University-Sofia in 2002 and the Masters degree in Radio Communications in 2004 at the same university.

He has been working in many companies in the IT industry as support engineer, network engineer and software engineer since year 2000. His skills include: C/C++, SQL, PHP, C#, HTML/CSS/JavaScript, SysML, Business Process Management, Networking, Linux/Windows etc. Currently, he is working at Milestone Systems (Part of Canon group) as a Software Engineer. He is a valuable member of IEEE (CS, ComSoc) since 2005.

Tsvetan is one of the founders of **IEEE Young Professionals AG of Bulgaria**.



**Boyan Sotirov** received the B.Sc and M.Sc. degrees in the subject of Radio Communications from the Technical University-Sofia, Bulgaria.

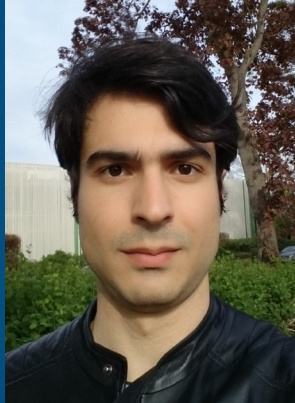
He possesses a wide experience working in the business sector of Communications. In the period 2005-2013 he has held different positions in GiTy Bulgaria and Siemens Enterprise Communications, Bulgaria as technician and service engineer. Currently, he works as Senior Service Engineer at UNIFY, Bulgaria.

His interests are in the fields of IP Networking, Telecommunications, Internet of Things, Specialized Networks and Applications and Embedded Systems.

Boyan is one of the founders of **IEEE YoungProfessionals Affinity Group of Bulgaria**.



# The Founders – Who we are?



**Plamen Patrashkov** is a telecommunications engineer. He has held various engineering positions within the telecommunications industry and currently works for Commsquare, a telecom consultancy company. In 2012 he received the MSc degree in Mobile Communications (Distinction) from King's College London and prior to that in 2011 he graduated with excellence the BEng degree in Telecommunications from the Technical University of Sofia.

Plamen's interests include heterogeneous mobile networks, IP networks and mathematical analysis. He is also an avid reader of history and culture and enjoys travelling.

Plamen is one of the founders of **IEEE Young Professionals Affinity Group of Bulgaria**.

# Aims and Vision of the Founders

- To increase the awareness on the mission, goals and benefits of being an active IEEE member.
- To strengthen the collaboration between the local IEEE YP members and IEEE Student branches.
- To establish a good relations with the neighboring countries' YP Affinity Groups.
- To encourage the active industry/academia involvement and partnership through various activities.

# Forthcoming Activities - 2015

- The second Technical meeting of the Bulgarian **IEEE Young Professionals Affinity Group** will be held in **November 2015**, during the Unitech Conference at *Technical University- Gabrovo*.

<http://unitech.tugab.bg>

- **Dr. Tanya Gachovska** will organize a workshop on *Power Electronics* with two outstanding IEEE members from USA.

# Forthcoming Activities - 2016

- ▶ **Dr. Vladimir Kotev** will organize a workshop within the regular spring conference at TU-Sliven.
- ▶ In the beginning of **September 2016**, the **IEEE Young Professionals Affinity Group** of Bulgaria will be responsible of organizing the youth scientific session during the **IEEE Conference on "Intelligent Systems'16"**, which will be held back in Sofia.

<http://ieee-is.org>

# Elections results

- ▶ The newly elected governing body for the term ending 2016 is:
  - **Yancho Todorov– Chair**
  - **Boyan Sotirov– Vice Chair**
  - **Gergana Lazarova– Secretary**
  - **Tsvetan Filev– Treasurer/Webmaster**

<http://yp.ieee.bg>

# How to get in touch with us?

## › Contacts

- **Web:** <http://yp.ieee.bg>
- **LinkedIn** – IEEE Young Professionals Bulgaria
- **Facebook** – <https://www.facebook.com/groups/yp.ieee.bg>
- **Twitter** – @ypbulgaria
- **E-mail:** [yp@ieee.bg](mailto:yp@ieee.bg)

**Thank you for  
your attention!**