

# **IEEE R. Macedonia Section ComSoc Chapter**

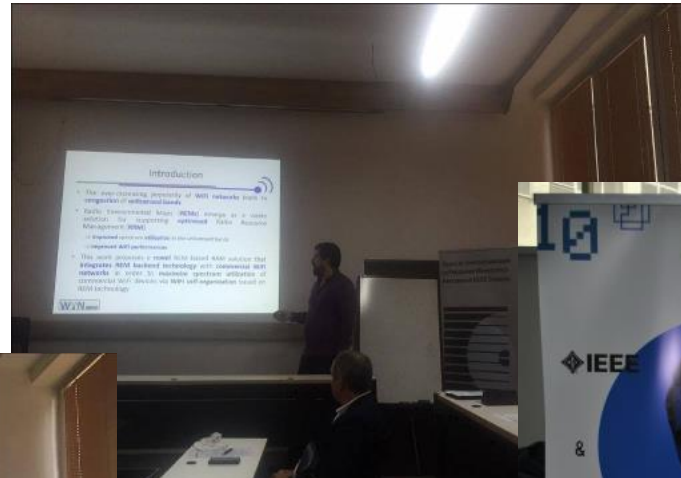
## ***Report***

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Chapter Chair 2016-2017



# Work in 2016

- Co-sponsorship of the FutureComNet 2016 conference
- Co-sponsorship of the annual CTIF-SEE workshop
- Chapter awards



# ComSoc Macedonia

## Student Achievement Award for 2017

- Awarded to a graduate student in telecommunications showing high academic record
- The first one awarded in 2012, now a big hit among graduates
- Previous recipients had accepted papers in IEEE Transactions on Information Theory, IEEE Communications Letters, IEEE Communications Surveys and Tutorials, Springer Mobile Networks and Applications etc.
- The call for nominees is usually published around September
- The prize consists of money (variable according to the local budget) and a certificate



# Best Practical Diploma Thesis

## “Nikola Tesla” Award for 2017

- Awarded to an undergraduate student in telecommunications whose diploma thesis tackled a practical problem (either software or hardware)
- Initiated in 2016, proved to motivate many practical diploma thesis
- The winner was selected among solutions such as an Android application for restaurants search/find/rate in Skopje, a testbed for virtualized RAN resources using USRP2s, a design and development of an 2.4GHz antenna with corresponding lab tests for proper operation etc.
- The prize comprised money and a certificate; the initial idea was that the prize would be a paid trip to the “Nikola Tesla” museum in Belgrade



# Laboratory for Embedded Communications

- Ongoing effort to motivate students to do more hands-on work with real equipment
- The plan is to purchase:
  - Raspberry Pi kits (at least 6)
  - BeagleBoards (at least 2)
  - Android smartphones (at least 2)
  - Android wearable devices (at least 2)
- The equipment will be used in the course “Embedded Communications Systems”, elective course in the final semester at FEEIT for all majors (not exclusively)
- The lab will allow students to work on end-to-end engineering solutions in the domain of IoT
- It is expected that there will be at least 4 Diploma thesis developed in this lab annually
- The lab will be IEEE branded to acknowledge the support from IEEE

# **Best Android Application for ICT Students Competition in 2017**

- If the previously mentioned laboratory is established, the chapter plans to organize an annual competition for ICT students in the area of embedded and IoT systems
- The competition will be a one-day event with students competing on real equipment, real-time
- Potential enabling technologies for the competition comprise Android Things and IoTivity framework
- The competition will motivate students to do visible practical work while at the same time IEEE will get a huge exposure to many students

# Other

- (Possible) technical co-sponsorship of BalkanCom 2018
  - Initial negotiations were held between the chapter and the organizers of BalkanCom 2017 (prof. Akyildiz and prof. Ephremides) for IEEE support
  - Current efforts to organize the second edition of this conference in Skopje and support it by IEEE
- DLT
  - Some initial talks
- Dissemination
  - Web and facebook pages of the chapter (regularly updated):
    - <http://mk.chapters.comsoc.org>
    - <https://www.facebook.com/ComSoc-Chapter-Macedonia-303827883029533/>
- Publicity (GCN articles)
  - V. Atanasovski, “From the Republic of Macedonia Chapter: Another Successful FutureComNet Edition,” *Global Communications Newsletter*, August 2016, ISSN 2374-1082.  
([http://www.comsoc.org/files/Publications/Magazines/gcn/pdf/GCN\\_2016\\_08.pdf](http://www.comsoc.org/files/Publications/Magazines/gcn/pdf/GCN_2016_08.pdf))
  - Z. Hadzi-Velkov, “The R. Macedonia ComSoc Chapter Wins the 2014 Chapter Achievement Award for the EMEA Region,” *Global Communications Newsletter*, March 2015, pp. 3-4.



# Thank you for your attention

