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Important dates:

Paper submission deadline:
May 16, 2012

Notification of acceptance:
July 1, 2012

Camera ready paper due:
July 20, 2012

Advanced registration by:
September 2012

CALL FOR PAPERS

The 1st International Workshop on Community Networks and Bottom-up-Broadband (CNBuB 2012)

CNBuB 2012 will take place in Barcelona, at October 8, 2012, and is co-located with the 8th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2012).

Aim and Scope: Community networking, together with the Bottom-up-Broadband initiative, is an emerging model for the Future Internet across Europe and beyond where communities of citizens build, operate and own open IP-based networks, a key infrastructure for individual and collective digital participation. Although community based networks often extend or complement the coverage of networks of commercial ISPs, they differ in several key aspects: There is usually no central authority that is responsible for a precise network planning. Support is decentralized and open, provided by the community. The network nodes are often inexpensive off-the-shelf equipment and the network elements exhibit a high degree of heterogeneity in the hardware, software, and capacity. The network infrastructure belongs to the user and is shared to build the network. The network is very dynamic: the number of nodes may rapidly grow and change as new members join the network, or when nodes overload or fail. In these scenarios, the networking and systems research community has the opportunity to contribute with more sustainable, adaptive, scalable, integrated, autonomic solutions for those common traits in community networks. The CNBuB 2012 workshop aims at serving as a meeting point for exchanging ideas, discussing solutions, and sharing experiences among researchers and practitioners, both from academia and community networks.

Participation: For participation in the workshop as an author presenting a paper please refer to the submission instructions. Community network participants and students without authoring a paper can apply for a reduced registration rate for the workshop (limited number). Please contact with the workshop chairs.

Papers: The workshop solicits original papers addressing theoretical and practical challenges of community networks and bottom-up-broadband, including insights from other disciplines that contribute to the socio-technical-economic understanding of the community network operation and growth. Topics of interest for CNBuB 2012 include, but are not limited to:

- Wireless mesh networks
- Wireless MAC and routing protocols
- Services and applications
- Cross-layer designs
- Hybrid networks with wireless and optical fibre links
- Tools for bootstrapping and running community networks
- Performance modelling and evaluation
- Quality of service provisioning
- Quality of experience in community networks
- Community network security and privacy
- Large-scale management and data collection infrastructures
- Incentive models to encourage participating in community networks
- Socio-technical-economic models for community networks

Submission instructions: Papers should be submitted in PDF as intended for the final publication, fully formatted following IEEE Computer Society Proceedings Author Guidelines. The length of the papers must not exceed 8 IEEE pages. All papers will be peer reviewed and the comments will be provided to the authors. Once accepted, the paper will be included into the IEEE conference proceedings published by IEEE Computer Society Press and will be accessible via IEEE Xplore Digital Library. At least one of the authors of each accepted paper is required to register at the regular rate to the conference. See the CNBuB2012 website for detailed instructions.

For more information:

<http://research.ac.upc.edu/CNBuB2012/>

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