
ADVANCES IN AD HOC NETWORKING

IFIP – The International Federation for Information Processing

IFIP was founded in 1960 under the auspices of UNESCO, following the First World Computer Congress held in Paris the previous year. An umbrella organization for societies working in information processing, IFIP's aim is two-fold: to support information processing within its member countries and to encourage technology transfer to developing nations. As its mission statement clearly states,

IFIP's mission is to be the leading, truly international, apolitical organization which encourages and assists in the development, exploitation and application of information technology for the benefit of all people.

IFIP is a non-profitmaking organization, run almost solely by 2500 volunteers. It operates through a number of technical committees, which organize events and publications. IFIP's events range from an international congress to local seminars, but the most important are:

- The IFIP World Computer Congress, held every second year;
- Open conferences;
- Working conferences.

The flagship event is the IFIP World Computer Congress, at which both invited and contributed papers are presented. Contributed papers are rigorously refereed and the rejection rate is high.

As with the Congress, participation in the open conferences is open to all and papers may be invited or submitted. Again, submitted papers are stringently refereed.

The working conferences are structured differently. They are usually run by a working group and attendance is small and by invitation only. Their purpose is to create an atmosphere conducive to innovation and development. Refereeing is less rigorous and papers are subjected to extensive group discussion.

Publications arising from IFIP events vary. The papers presented at the IFIP World Computer Congress and at open conferences are published as conference proceedings, while the results of the working conferences are often published as collections of selected and edited papers.

Any national society whose primary activity is in information may apply to become a full member of IFIP, although full membership is restricted to one society per country. Full members are entitled to vote at the annual General Assembly, National societies preferring a less committed involvement may apply for associate or corresponding membership. Associate members enjoy the same benefits as full members, but without voting rights. Corresponding members are not represented in IFIP bodies. Affiliated membership is open to non-national societies, and individual and honorary membership schemes are also offered.

ADVANCES IN AD HOC NETWORKING

*Proceedings of the Seventh Annual Mediterranean
Ad Hoc Networking Workshop, Palma de Mallorca,
Spain, June 25-27, 2008*

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Preface

This volume contains the proceedings of the Seventh Mediterranean Ad Hoc Networking Workshop (Med-Hoc-Net'2008), celebrated in Palma de Mallorca (Illes Balears, Spain) during June 25-27, 2008. This IFIP TC6 Workshop was organized by the Universitat de les Illes Balears in cooperation with the Asociación de Técnicos de Informática and sponsored by the following Working Groups: WG6.3 (Performance of Computer Networks) and WG6.8 (Mobile and Wireless Communications).

The rapid evolution of the networking industry introduces new exciting challenges that need to be explored by the research community. Aside the adoption of Internet as the global network infrastructure these last years have shown the growing of a set of new network architectures without a rigid and known a priori architecture using wireless techniques, like sensor and ad-hoc networks. These new types of networks are opening the possibility to create a large number of new applications ranging from domestic to nature surveying.

These new networks are generating new technical challenges like the capability of auto-reconfiguration in order to give the network an optimal configuration, the energy saving need when the nodes have not a source of energy other than a small battery, new protocols to access the network and to convey the information across the network when its structure is not completely known or should be discovered, new paradigms for keeping the needed information security and privacy in a quite uncontrolled environment, and others.

According to these trends, the intention of the conference was to provide a forum for the exchange of ideas and findings in a wide range of areas related to the above mentioned topics that were covered by the presentation of the papers accepted by the Programme Committee. The main program covered two days and included six sequential sessions. Also, the programme was enriched by a keynote speech offered by the prestigious and world-renowned researcher in the networking field that is Ian F. Akyildiz from the Georgia Institute of Technology (USA). Aside the paper presentation part, the workshop offered two tutorial given by: Guy Pujolle from the University of Paris 6 (France), on The Wi-xx family versus 4G generation and by Mario Gerla from the University of California at Los Angeles (USA) on Mobile P2P networks with applications to vehicles and health-nets.

June 2008

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Table of Contents

Reconfiguration and Optimization Networks

<i>End to End QoS Mapping between Metroethernet and Wimax.....</i>	<i>1</i>
<i>L. R. Dutra, G. A. Nze, C. J. Barenco Abbas, C. Bon, L. Gomes</i>	
<i>A Mobility Model for Personal Networks (PN).....</i>	<i>13</i>
<i>Y. Gu, V. Prasad and I. Niemegeers</i>	
<i>Replicated Random Walks for Service Advertising in Unstructured Environments.....</i>	<i>25</i>
<i>D. Kogias, K. Oikonomou, and I. Stavrakakis</i>	

Sensor Networks

<i>ACF:An Autonomic Communication Framework for Wireless Sensor Networks.....</i>	<i>37</i>
<i>J. Sun and R. Cardell-Oliver</i>	
<i>An Autonomous Energy-Aware Routing Scheme: a Supplementary Routing Approach for Path-Preserving Wireless Sensor Networks</i>	<i>49</i>
<i>F.-Y. Leu, G.-C. Li and W.-C. Wu</i>	
<i>FlowerNet - How to design a user friendly Sensor Network.....</i>	<i>61</i>
<i>B. Gressmann and H. Hellbrueck</i>	
<i>Distributed Policy Management Protocol for Self-Configuring Mobile Ad Hoc Networks.....</i>	<i>73</i>
<i>M. Ayari, F. Kamoun, and G. Pujolle</i>	

Routing Algorithms and Protocols I

<i>Performance Evaluation Protocol for fair P2P Auctions over MANETs</i>	<i>85</i>
<i>I. Doghri, and H. Kaffel-Ben Ayed</i>	
<i>A Scalable Adaptation of the OLSR Protocol for Large Clustered Mobile Ad hoc Networks.....</i>	<i>97</i>
<i>L. Canourgues, J. Lephay, L. Soyer, and A.-L. Beylo</i>	

Security and Privacy

<i>Securing Multihop Vehicular Message Broadcast using Trust Sensors.....</i>	<i>109</i>
<i>M. Gerlach, O. Mylly, N. Mariyasagayam and M. Lenardi</i>	
<i>Scalable Exchange of Packet Counters in OLSR.....</i>	<i>121</i>
<i>I. Gawędzki and K. Al Agha</i>	
<i>Intrusion Detection in Mobile Ad Hoc Networks Using Classification Algorithms.....</i>	<i>133</i>
<i>A. Mitrokotsa, M. Tsagkaris and C. Douligeris</i>	
<i>Security for Context-Aware ad-hoc Networking Applications.....</i>	<i>145</i>
<i>Y. Venturini, V. Coroama, T. C. M. B. Carvalho, M. Naslund and M. Pourzandi</i>	

MAC Protocols

<i>No Ack in IEEE 802.11e Single-Hop Ad-Hoc VoIP Networks.....</i>	<i>157</i>
<i>J. Barceló, B. Bellalta, A. Sfairopoulou, C. Cano, and M. Oliver</i>	
<i>Constraining the Network Topology in IEEE 802.15.4.....</i>	<i>167</i>
<i>A. Abbagnale, E. Cipollone and F. Cuomo</i>	
<i>Throughput and Delay Bounds for Cognitive Transmissions.....</i>	<i>179</i>
<i>F. Borgonovo, M. Cesana and L. Fratta</i>	
<i>Wireless Broadcast with Network Coding: Dynamic Rate Selection.....</i>	<i>191</i>
<i>S. Y. Cho and C. Adjih</i>	

Routing Algorithms and Protocols II

<i>A Reactive Wireless Mesh Network Architecture.....</i>	<i>203</i>
<i>B. Wehbi, A. Laouiti, and A. Cavalli</i>	
<i>MEA-DSR: A Multipath Energy-aware Routing Protocol for Wireless Ad Hoc Networks.....</i>	<i>215</i>
<i>F. de Rango, P. Lonetti, and S. Marano</i>	
<i>A New Energy Efficient Multicast Routing Approach in MANETs.....</i>	<i>226</i>
<i>M. Nozad Bonab, J. Jabari Lotf, B. Zarei, M. Dehghan</i>	