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808 ADVANCES IN UNDERWATER ACOUSTIC NETWORKING cally dependent on both range and frequency Short-range systems that operate over several tens of meters may have more than 100kHz of bandwidth, while long-range systems that operate over several tens of kilometers may have bandwidths of only a few kHz Therefore, UW-A communication system mostly

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Advances in Software-Defined Technologies for Underwater ...

Review Article Advances in Software-Defined Technologies for Underwater Acoustic Sensor Networks: A Survey Jianping Wang ,1,2 Dechuan Kong,1 Wei Chen ,2 and Shujing Zhang1 1School of Information Engineering, Henan Institute of Science and Technology, Xinxiang 453003, China 2School of Information Engineering, Wuhan University of Technology, Wuhan 430070, China

Networking: Recent Advances and Future

Acoustic Research Laboratory, National University of Singapore Milica Stojanovic Massachusetts Institute of Technology P A P E R Underwater Acoustic Communications and Networking: Recent Advances and Future Challenges ABSTRACT The past 30 years have seen a ...

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Recent Advances in Underwater Acoustic Communications ...

Recent Advances in Underwater Acoustic Communications & Networking Mandar Chitre1, Shiraz Shahabudeen1, Lee Freitag2, Milica Stojanovic3 1 Acoustic Research Laboratory, National University of Singapore 2 Woods Hole Oceanographic Institution 3 Massachusetts Institute of Technology Abstract- The past three decades have seen a growing interest in underwater acoustic communications

Underwater sensor networks: applications, advances and ...

With the advances in acoustic modem technology, research has moved into the area of networks The major challenges were identified over the past decade, pointing once again to the fundamental differences between acoustic and radio propagation For example, acoustic signals propagate at 1500ms⁻¹, causing

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ADVANCES IN ALL-NEURAL SPEECH RECOGNITION Geoffrey Zweig, Chengzhu Yu, Jasha Droppo and Andreas Stolcke Microsoft Research ABSTRACT This paper advances the design of CTC-based all-neural (or end-to-end) speech recognizers We propose a novel symbol inventory, and a novel iterated-CTC method in which a second system is used to

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Advances in the acoustics of flow ducts and mufflers 59 The transfer matrices used in the aforesaid articles assumed plane wave propagation in a stationary inviscid medium The problem of wave propagation in a viscous medium involves a coupling of radial and axial components of acoustic particle

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Underwater Acoustic Networks Ethem M Sozer, Milica Stojanovic, and John G Proakis, Life Fellow, IEEE Abstract— With the advances in acoustic modem technology that enabled high-rate reliable communications, current re-search focuses on communication between various remote instruments within a network environment Underwater acoustic

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Advances in the acoustics of flow ducts and mufflers 5 9 The transfer matrices used in the aforesaid articles assumed plane wave propagation in a stationary inviscid medium The problem of wave propagation in a viscous medium involves a coupling of radial and axial components of acoustic particle

Long Short-Term Memory Recurrent Neural Network ...

Long Short-Term Memory Recurrent Neural Network Architectures for Large Scale Acoustic Modeling Has Jim Sak, Andrew Senior, Francisco Beaufays Google, USA fhasim, andrewsenior, fsb@google.com Abstract Long Short-Term Memory (LSTM) is a specific recurrent neural network (RNN) architecture that was designed to model tem-

OF I Recent Advances in High-speed Underwater Acoustic Communi

to network protocol design Major difficulties due to the long propagation times in the channels Nevertheless, advances have already in this direction, and the first protocols for acoustic networks (ALAN) have been proposed [8], [9] Recent Advances in High-speed Underwater Acoustic Communi Milica Stojanovic, Member,

Advances in Efficient Submersible Acoustic Mobile Networks

Advances in Efficient Submersible Acoustic Mobile Networks Bob Welsh, Jason Redi BBN Technologies 10 Moulton St Cambridge MA 02138 welsh@bbn.com

Acoustic Modeling for Google Home

with acoustic modeling, and Grid-LSTMs to model frequency variations On the system level, improvements include adapting the model using Google Home specific data We present results on a variety of multichannel sets The combination of technical and system advances result in a reduction of WER of 8-28% relative compared to the current

Networks with Acoustic Range Measurements

Sensor Localization Calibration of Ground Sensor Networks with Acoustic Range Measurements Författare Author Viktor Deleskog Sammanfattning Abstract Advances in the development of simple and cheap sensors give new possibilities with large sensor network deployments in monitoring and surveillance applications Commonly, the