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# PROCEEDINGS OF SPIE

## ***Broadband Access Communication Technologies IV***

**Benjamin Dingel  
Raj Jain  
Katsutoshi Tsukamoto**  
*Editors*

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## Introduction

It is our pleasure to welcome all of you in the SPIE Photonics West 2010 conference on Broadband Access Communication Technologies IV.

Due to the financial bubble in 2009 and the consequences in the whole economy, we are fortunate to have an invited paper on economics of pricing in broadband access to open and set the tone of this conference.

This year we have assembled high-quality technical papers coming from Asia and North America. It provides coherent coverage and latest technologies in various aspects of broadband access from high speed wireless 4G to radio-over-fiber. All these efforts have resulted in a very strong technical program representing the state of the art in the field.

The purpose of this conference is to promote discussions and disseminations of design, development, and performance of various types of broadband access communication technologies. This includes platform technologies such as optical fiber-based, radio-over-fiber-based, photonics-based, copper-based, satellite-based, mobile wireless-based and power-line communications. We have invited a number of well-known speakers to present the current and future trends of these broadband access technologies as well as the economics of pricing in access.

Finally, we strongly appreciate the speakers and authors of all the contributed and invited papers, and the technical program committee members. We also thank the SPIE staff for their help in processing the submissions and organizing the conference. The success of this conference is strongly due them.

Thank you for joining us at the Broadband Access Communication Technologies IV conference.

**Benjamin Dingel**  
**Raj Jain**  
**Katsutoshi Tsukamoto**



