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# PROCEEDINGS OF SPIE

## ***Next-Generation Analyst V***

**Timothy P. Hanratty**  
**James Llinas**  
*Editors*

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## Introduction

It is unfortunate that Moore's Law does not apply to the processing capacities of the human mind. As a result of more-or-less fixed short-and-long term memory and processing capacities, and in the face of the evolving vast levels of data/information flows for virtually all analysis and decision-making support environments, the human has become the most critical chokepoint in any system architecture. Various strategies have been tried to aid the human (or humans) in modern analyst support prototypes, employing methods for multi-screen or large screen displays, extensive hyperlinking among disparate individual support tools, agent techniques, and yet other methods toward mitigating the throttling effects of human limitations.

This fifth conference on "Next-Generation Analyst" continues the tradition of presenting the latest technologically based and/or architecturally based approaches that researchers across the world are exploring to realize improvements in human-machine symbiosis required for effective sense making. Involving scientists from Australia, Germany, the United Kingdom, Canada, and the United States in six unique sessions, the 2017 conference offers a wide range of new ideas to support improved efficiencies in human-machine dynamics and situational understanding in a variety of application domains.

On behalf of SPIE and the program committee, we welcome you to enjoy and learn from this 2017 conference on Next Generation Analyst.

**Timothy P. Hanratty**  
**James Llinas**

