Selected Publications

d'Auriol (2017) Optical Pipelined Multi-Bus Interconnection Network Intrinsic Topologies. ETRI Journal, In press (SCI)

d'Auriol (2017) High Band-width Flexible Interconnections in the All-Optical Linear Array with a Reconfigurable Pipelined Bus System (OLARPBS) Optical Conduit Parallel Computing Model, J Supercomput, 73(2) Feb., pp. 900-922 (SCI)

d'Auriol (2016) Engineering Insightful Visualizations, J Visual Lang Comput, 37 Dec., pp. 12-28 (SCI)

d'Auriol (2016) All-Optical Linear Array with a Reconfigurable Pipelined Bus System (OLARPBS) Optical Bus Parallel Computing Model, J Supercomput, 72(2) Feb., pp. 753-769 (SCI)

d'Auriol (2012), Serviceable Visualizations, J. Supercomput, 61(3) Sept., pp. 1089-1115 (SCI)

d'Auriol and Roldán (2009), An Optical Power Budget Model for the Parameterized Linear Array with a Reconfigurable Pipelined Bus System (LARPBS(p)) Model, JPDC, 69(10) Oct., pp 815-823 (SCI)

d'Auriol (2009) The Systems Edge of the Parameterized Linear Array with a Reconfigurable Pipe-lined Bus System (LARPBS(p)) Optical Bus Parallel Computing Model, J. Supercomput. 28(2) May, pp 183-209 (SCI)

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Visual Enabled Computing

Visual Enabled Computing – V.E. Computing – is Dr. d'Auriol's research group. We investigate, research and develop all aspects pertaining to present and future visualization-related applications including hardware convergence and hardware and software convergent technologies aimed at time, resource and mission critical activities in a high-speed and high-density visual information acquisition environment.



For a visual future

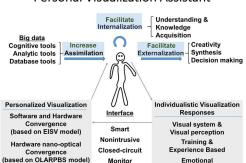
Research and Development

Personal Visualization Assistant

An individualistic and personalized visualization approach takes into account specific individualistic visual factors so as to deliver personalized visual information in time, resource and mission critical activities.

- Facilitate information assimilation, i.e., increase information flow rate from information sources to individuals
- 2) Facilitate internalization, i.e., increase understanding and knowledge acquisition via visual learning and insight.
- Facilitate externalization, i.e., support creativity, synthesis and decision making.

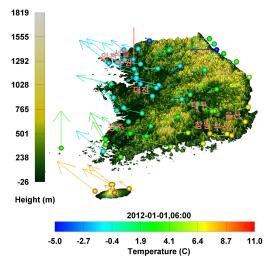
Personal Visualization Assistant



Exhibitions (2016,2017)
International Military Science and
Technology Fair
COEX, Seoul Korea

Engineering Insightful Serviceable Visualizations

A question and answer, component based approach to designing effective visualizations. Visualizations are composed of components, each of which addresses specific answers to questions. (Below: temperature, wind, terrain, city, population and legend components adhering to EISV design, colors optimized for projection display)



OLRAPBS Vis Compute Engine

The OLARPBS is a high-speed, high-bandwidth, all-optical, massively parallel computer architecture designed to meet the needs of future time, resource and mission critical activities in a high-speed and high-density visual information acquisition environment. Its exa-to-zetta bps total bandwidth, giga bit optical register storage capacity, flexible reconfigurable interconnect and convergence technologies makes it an ideal architecture to invest in.



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