

**7th International Conference on  
Knowledge-Based Intelligent Information & Engineering Systems  
3, 4 & 5 September 2003, University of Oxford, U.K.**

**Call for Papers : Invited Session on  
"Neural Networks for Vision --- Biological and Artificial"**

Modeling neural networks is important for both understanding the biological brain and obtaining design principles for artificial vision systems of the next generation. This session aims to focus on (1) modeling approach to uncover the mechanism of the biological visual system, and (2) artificial neural networks suggested by the biological visual system.

Specific topics of interest include but not limited to:

- Biological neural network models for the visual system
- Artificial neural networks for vision
- Visual pattern recognition using neural networks
- Object recognition
- Active vision
- Selective visual attention
- Learning and self-organization of neural networks for vision
- Stereoscopic vision, binocular vision
- Eye movement and foveation
- Early vision
- Motion analysis with neural networks
- Target detection and tracking
- Color vision
- Segmentation of images or patterns using neural networks
- Completion of imperfect patterns  
(e.g., partly occluded, or contaminated with noise)
- Visual illusion

**Instructions for Authors**

Only electronic copies of the papers in Microsoft Word, PDF or Postscript forms are acceptable for review purposes and must be sent to the session chair. However, please note that you will be required to send hard copy of the final version of your paper, if it is accepted; electronic submission of final papers is not allowed.

Papers must correspond to the requirements detailed in the Instructions to Authors which will be placed on the Conference Web Site,  
[www.bton.ac.uk/kes/kes2003/](http://www.bton.ac.uk/kes/kes2003/)

All papers must be presented by one of the authors, who must pay fees.

## **Publication**

The Conference Proceedings will be published by a major publisher, for example IOS Press of Amsterdam.

Extended versions of selected papers will be considered for publication in the International Journal of Knowledge-Based Intelligent Engineering Systems,  
[www.bton.ac.uk/kes/journal/](http://www.bton.ac.uk/kes/journal/)

## **Important Dates**

Deadline for submission intention : **December 1, 2002**

Deadline for receipt of papers by Session Chair : **February 1, 2003**

Notification of acceptance : **March 1, 2003**

Camera-ready papers to session chair by : **April 1, 2003**

*(Session Chair must send final camera-ready papers to reach to KES Secretariat by 1 May 2003 or they will not appear in the proceedings).*

## **Session Chair:**

Kunihiko Fukushima

Professor

Tokyo University of Technology

1404-1, Katakura, Hachioji, Tokyo 192-0982, Japan

e-mail: [fukushima@karl.teu.ac.jp](mailto:fukushima@karl.teu.ac.jp)

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