## Fall Vision Meeting, 2003

## in cooperation with the Optical Society of America

October 4-6, 2003

Tucson, Arizona, USA

# Fall Vision Meeting (FVM) Abstracts were published in the Journal of Vision

http://journalofvision.org/3/12/

### Fall Vision Meeting, 2003: Abstracts

The Fall Vision Meeting Meeting was held October 4-6, 2003, in Tucson, Arizona, USA in cooperation with the Optical Society of America. The following are the abstracts of that meeting. ARVO holds the copyright to Journal of Vision, Vol. 3, No. 12, but not to the individual abstracts in that issue. ARVO has published these abstracts as a service to the vision science community.

### De Valois Symposium: Psychophysics

1 Abramov & Gordon The problems of seeing red

2 Howard Phantom fringes 1951-2003: Exciting the imaginations of psychologists,

physiologists, and model builders

3 Adams Color studies of cone pathway sensitivity in eye disease

4 Switkes, Wilson, & De Valois Glass pattern studies of contrast effects in feature integration and

segmentation

#### **Cue Combination**

5 Sabes Sensory integration during motor planning

6 Knill Combining depth cues for planning and on-line control of reaching movements

7 Landy, Hillis, & Banks Effects of viewing geometry on combination of disparity and texture gradient

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8 He & Fang Integration of depth cues across space and modalities

#### Segmentation

9 Malik The Ecological Statistics of Grouping and Figure-Ground Cues

10 Elder Contour grouping: Ecological statistics, generative models and ideal observers

11 Olzak, Saylor, & Gabree Scene segments, surrounds, and superimposed masks: Complex interactions

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12 Tyler Novel manipulations of higher-order textures reveal that discrimination is

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13 Davis, Frederick, & De Valois

Building a representation of aspect ratio

De Valois Symposium: Physiology

14 Jacobs

Photopigment polymorphisms and color vision: Lessons from nonhuman

primates

15 Snodderly Awakening the visual cortex

16 von der Heydt Figure-ground organization in the visual cortex

17 Tootell What's in a face? FMRI studies in humans and macaques.

Accommodation and Refractive Error I

18 Dobson, Miller, Twelker, Sherrill, & Astigmatism and emmetropization in a native american population

19 Wallman Blur and emmetropization

20 Kruger, Rucker, & Stark Defocus cues and accommodation

21 gwiazda, Vera-Diaz, held, & thorn Refractive error-dependent differences in accommodation after blur adaptation

22 Glasser Presbyopia and aging in the crystalline lens

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23 Sieffert & Gray Combination of binocular and monocular visual information in ball catching

24 Smallman Naïve misconceptions about perspective projection: A new model for the

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25 Banks, Gepshtein, & Landy Why is spatial stereoacuity so low?

26 Rosas, Wichmann, Ernst, & Texture and haptic cues in slant discrimination: Measuring the effect of texture

Wagemans type on cue combination

**Accommodation and Refractive Error II** 

27 Llorente, Barbero, Cano, Dorronsoro, Axial length, corneal shape and optical aberrations in myopic versus hyperopic

& Marcos eyes

28 Cheng, Thibos, & Bradley Predicting subjective judgement of best focus with image quality metrics

29 Campbell, Bueno, Hunter, & Kisilak Ophthalmic lens effects in hartmann-shack measurements

30 Artal, Manzanera, & Williams How stable is the shape of the ocular point spread function during normal

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32 Shevell & Xian Chromatic induction from grouping

33 Hillis & Brainard Cone inputs controlling color context effects: Detection and appearance

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37 Coletta & Moskowitz Wavefront aberrations and mesopic visual performance following soft contact

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38 Yoon & Jeong Effect of the movement of customized contact lens on visual benefit in

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45 Kuriki	Nonlinear changes in visual sensitivity balance under changes in the chromaticity of ambient illuminant.
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