Office of the Registrar FORM 40 REV. 2/99

PURDUE UNIVERSITY REQUEST FOR ADDITION, DELETION, OR REVISION OF A COURSE

SCHOOL DOCUMENT NO. EFD82-00

GRADUATE COUNCIL DOCUMENT NO.

ARTMENT School of Electrical & Computer Engineering DATE SUBMITTED 8/15/01 DATE EFFECTIVE 8/31/01 INSTRUCTIONS: Please check the items below which describe the purpose of this request Deletion of a course Change in semesters offered New course with supporting documents Change in course credit/type 9. Add existing course offered at another campus 10. Change in course attributes Change in course number at same level Change in instructional hours Downgrading of course level Change in prerequisites 12. Change in description of course content Upgrading of course level 13. Change in course title Transfer of course from one dept. to another SEMESTERS OFFERED PROPOSED: **EXISTING**: Subject Abbreviation EE Check All That Apply Subject Abbreviation EE Course Number Ag Winter Course Number 661 Summer Fall Spring Proposed Title Computer Vision V Variable Title Yes No 🗸 Abbreviated Title Computer Vision Abbreviated title will be entered by the Office of the Registrar if omitted. (22 CHARACTERS ONLY) COURSE ATTRIBUTES: Check All That Apply. CROSS LISTED COURSES **CREDIT TYPE** Fixed Credit: Cr. Hrs. 3 Pass/Not Pass Only Repeatable for Credit Variable Credit Range: 2. Available for Credit by Examination Minimum Cr. Hrs (Check One) To 4. Designator Required Special Fees Maximum Cr. Hrs. **Equivalent Credit:** Yes No Approval Required for Enrollment Department Thesis Credit: Yes No V Instructor CAMPUS(ES) INVOLVED FTE Instructional Instructional Class nstructional Class FTE Class FTE **Hours** Type **Hours** Type Hours Calumet rype Primary Auto-tutorial Fort Wayne Thesis Ind. Study Observation Indianapolis Secondary Laboratory Clinic Matls Based North Central West Lafayette Experiential Lab. Prep. Off Campus COURSE DESCRIPTION (PREREQUISITES INCLUDED): Autonomous or semi-autonomous systems endowed with visual perception. Vision psychophysics, image representation, edge detection, region-based segmentation, camera modeling, stereo vision, pose calculation, object recognition, optical flows, visual tracking, color vision, and computational geometry. Implementation of vision algorithms through programming assignments. Calumet Department Head Date Calumet School Dean Date Calumet Undergrad Curriculum Committee Fort Wayne Chancellor Fort Wayne Department Head Date Fort Wayne School Dean Date Date #949 Appr.for Faculty C.D.Sutton, Chair 9/5/01 Date Undergrad Curriculum Committee Date Indianapolis Department Head Date Indianapolis School Dean Date Date Approved by Graduate Council North Central Department Head Date North Central Vice Chancellor Date Graduate Council Secretary arayette Department Head Date West Lafayette School Dean Graduate Dean Date West Lafayette Registrar Graduate Area Committee Convener :-Date

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TO:

The Engineering Faculty

FROM:

The Faculty of the School of Electrical and Computer Engineering

RE:

Changes in EE 661

The faculty of the School of Electrical and Computer Engineering has approved the following course changes. This action is now submitted to the Engineering Faculty with a recommendation for approval.

From:

EE 661

Computer Vision

Sem. 2. Class 3, cr. 3.

Prerequisite: EE 570 or consent of instructor

This course deals with how an autonomous or a semi-autonomous system can be endowed with visual perception. The issues discussed include: Sampling from a Topological Standpoint; Grouping Processess; Data Structures, especially hierarchical types such as pyramids, quadtrees, octrees, etc: Graphic Theoretic Methods for structural description and consistent labeling; issues in 3-D Vision such as object representation by Gaussian Spheres, Generalized Cylinders, etc.

To:

EE 661

Computer Vision

Sem. 2. Class 3, cr. 3.

Autonomous or semi-autonomous systems endowed with visual perception. Vision psychophysics, image representation, edge detection, region-based segmentation, camera modeling, stereo vision, pose calculation, object recognition, optical flows, visual tracking, color vision, and computational geometry. Implementation of vision algorithms through programming assignments.

Reason:

The proposed course description and removal of prerequisite better reflect the

updated content of the course.

APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE COMMITTEE ON
FACULTY RELATIONS

CFR Minutes ____

#949

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Chairman CFR _ C.D. Sutton

W. Kent Fuchs

Professor and Head

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