



FCT Fundação para a Ciência e a Tecnologia

MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

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Assunto: Resposta ao pedido de reapreciação da Avaliação

001805 JAN 15 '10

Após a comunicação dos resultados da Avaliação 2007 das Unidades de I&D, foram submetidos para reapreciação da FCT 14 pedidos na área de Engenharia Electrotécnica e Informática, de um total de 25 unidades que se apresentaram à avaliação.

Atendendo ao elevado número de unidades que reclamaram da decisão do painel internacional nomeado para a avaliação (56%), foram efectuados contactos com peritos internacionais, nomeadamente da Carnegie Mellon University, com o objectivo de se proceder à constituição de um novo painel para a reavaliação das unidades que entenderam solicitar a reapreciação do resultado.

Com base no estipulado no ponto 4 do Artigo 9º do Regulamento do Programa de Financiamento Plurianual de Unidades de I&D, que determina poder proceder-se a uma reavaliação quando a FCT entender ser necessário, foi contactado o **Prof. Pradeep K. Khosla**, *Dean of the College of Engineering da Carnegie Mellon University*, a fim de constituir um painel de cientistas para reavaliar os Relatórios Científicos das unidades de I&D que submeteram o pedido de reapreciação. O painel de peritos seleccionado foi o seguinte:

Pradeep Khosla (Coordenador)
Dean of the Carnegie Mellon University College of Engineering
Dowd University Professor
Founding Director, CyLab
USA

Randal E. Bryant
Dean of the Carnegie Mellon University School of Computer Science
USA

Jose B. Cruz, jr.
Howard D. Winbigler Chair in Engineering
Professor of Electrical Engineering
Ohio State University (OSU)
USA

Jonathan M. Smith
Professor of Computer and Information Science
University of Pennsylvania
USA

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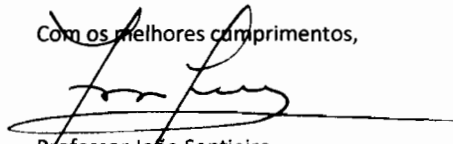
George Bekey

*Professor Emeritus of Computer Science Electrical Engineering and Biomedical Engineering
University of Southern California
USA*

O painel produziu o relatório individual que junto em anexo, constatando-se que deste exercício de reavaliação resultou a alteração da classificação para Muito Bom.

A conseqüente correcção dos valores relativos ao financiamento plurianual será efectuada a partir de Janeiro de 2010, data correspondente à homologação do resultado da reavaliação.

Com os melhores cumprimentos,



Professor João Sentieiro
Presidente da FCT

Re-Evaluation of Centro Algorítmico CAIGs

Unit 319

Unit 319, (CAIGs) is part of Electrical Engineering at the University of Minho. It is a large unit with 77 researchers with Ph.D. degrees. It was originally organized into three research groups:

Systems Engineering, Information Technology/Information Systems, and Electronics, corresponding to three departments of the School of Engineering. After three years the three large groups evolved into six more focused groups.

Systems Engineering (319-1127) was one of the three original groups. It had 21 Ph.D. Researchers plus 3 additional Ph.D. researchers. Based on the review for the previous period, this group improved its performance in quality and quantity. Of the 10 journals that are listed 6 had an impact factor greater than 1. The group graduated 17 Ph.D. and 6 M.S. students. The group participated in organizing numerous conferences. It spawned several new groups. The performance during the 3 years is very good.

Information Systems/Information Technology (319-971) is one of the original research groups. It had 25 Ph.D. Researchers by the time it got reorganized during the last 3 years. In terms of productivity, the group produced 26 papers in international journals and 12 in Portuguese journals. Among the 10 listed journal papers the average impact factor was 0.6. Fifteen Ph.D. and 49 M.S. students graduated. Many of the researchers were involved in organizing conferences. The group performance was very good.

Industrial Electronics (319-2166) is one of the original three groups. It had 25 Ph.D. Researchers organized into 6 subgroups. One of the subgroups evolved into one of the 6 new research groups. The group produced 29 international journal papers plus 3 book chapters. The publications are also reported in the new groups. 12 Ph.D. and 18 M.S. students graduated. There were 13 patents, also reported in one of the new groups. Many of the researchers participated in organizing conferences. The performance of this group was very good.

Industrial Electronics (319-2959) is one of the new research groups, retaining the title of a former group. There are 21 Ph.D. Researchers. The objectives are divided into 5 areas. Most of the 10 listed journal papers have high impact factors and a fair number of citations. There are many other papers. The group produced one international patent and 6 Portuguese patents. The researchers organized a fair number of conferences including one with 800 participants and 250 robot exhibits. There were 7 collaborative papers with Brazil, USA, Austria, and Germany. Two of their papers won best paper awards. The group performance was excellent.

Micro-Nanotechnologies and Biomedical Applications (319-2976) is one of the 6 new research groups. There are only 5 Ph.D. Researchers in this group but its output is high. All of the 10 listed journal articles had an impact factor greater than 1 and one had an impact factor of 5.625. They produced 8 Ph.D. and 2 M.S. graduates. They had 7 Portuguese patents and 1 international patent from the former Industrial Electronics group. They participated in organizing international conferences. The performance of this group is excellent.

Knowledge and Information Systems and Services (319-2171) is one of the 6 new

research groups, with 19 Ph.D. Researchers. It is an offshoot of part of the original group on Information Systems. The group produced 21 international journal papers and 8 national journal papers. The impact factor for the 10 listed papers averaged to about 0.7. There were 124 international conference papers and 40 national conference papers. 12 Ph.D. and 39 M.S. students graduated. The performance of this group was very good.

Ubiquitous and Pervasive Computing, Graphics, and Software Methodologies (319-2184) is one of the six new research groups. There are 16 Ph.D. Researchers. It is one of the offshoots from the original Information Systems research group. It produced more than 80 peer reviewed journal articles and conference papers. The impact factor for the papers ranged from 0.538 to 1.09. One patent was issued. 7 Ph.D. and 9 M.S. students graduated. The researchers participated in several program committees of conferences and they participated in organizing workshops and conferences. This group performed well and it could be rated as good.

Nonlinear Systems Optimization and Statistics (319-2168) is one of the 6 new groups. It was formed from part of the original Systems Engineering. Starting from 4 Ph.D. Researchers the group grew to 10 Ph.D. Researchers. 6 of the 10 listed papers had an impact factor greater than 1. Seven Ph.D. and 8 M.S. students graduated. In addition to the papers the group produced two publicly available software programs, with many users. The quality of the output of this group is very high. The performance of the group could be rated as very good.

Systems Engineering, Optimization, and Operations Research (319-2169). This is one of the 6 new groups. It evolved from Systems Engineering. There are 11 plus 2 Ph.D. Researchers. They won 3 international awards and one national award for their papers. The 10 listed papers have high impact factor and one with 5.6 impact factor. There are many Ph.D. and M.S. graduates commensurate with the group size. The group performance is excellent.

Overall, this panel believes that the rating for Unit 319 should be changed to Very Good.