

## **Critério de Produtividade Projeto Estratégico 2015-20.**

### 1. Scientific criterion to be an integrated member

During the year X a researcher is considered as an integrated member if he or she satisfies at least one of the following 4 items, during the period from 1st January of year X-5 until 31 December of year X-1,

A) 1 publication in one of the 10% WoS top journals in the following WoS scientific areas:

Computer Science, Theory and Methods

Logic

Mathematical and Computational Biology

Mathematics

Mathematics, Applied

Mathematics, Interdisciplinary Applications

Operations Research & Management Science

Statistics & Probability

Physics, Mathematical

B) PhD thesis defended after 1st January of year X-3 and one publication in a peer reviewed journal

C) 4 scientific indicators, according to the FCT definition (see Registration Guide p. 25),  
2 of them classified in WoS

D) 3 scientific indicators, according to the FCT definition (see Registration Guide p. 25),  
all of them classified in WoS

### 2. Internal collaborators and work plans

The members that do not satisfy the criterion are invited to present a 3 years work plan, in the scope of the group project. The plan should present a credible strategy to recover scientific productivity (as measured by the Unit criterion). If the plan is approved, they will be considered as “internal collaborators”. Internal collaborators are funded in the same condition as integrated members. Integrated members and internal collaborators contribute together to the progress of the scientific program of the group or of the thematic lines. The designation “internal collaborators” also applies to PhD students supervised by members of the Unit. As soon as an internal collaborator meets the criterion or completes its PhD, he will be considered an integrated member.

### **Top 10% journals (Web of Science) in selected areas:**

#### **Computer Science, Theory and Methods**

ACM COMPUTING SURVEYS

ACM TRANSACTIONS ON COMPUTER SYSTEMS

COMMUNICATIONS OF THE ACM

Future Generation Computer Systems-The International Journal of eScience

HUMAN-COMPUTER INTERACTION

IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION

IEEE Transactions on Information Forensics and Security

IEEE Transactions on Neural Networks and Learning Systems

IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS  
Information Fusion

### **Logic**

ACM Transactions on Computational Logic  
THEORY AND PRACTICE OF LOGIC PROGRAMMING

### **Mathematical and Computational Biology**

BIOINFORMATICS  
BRIEFINGS IN BIOINFORMATICS  
PLoS Computational Biology  
STATISTICAL METHODS IN MEDICAL RESEARCH  
Wiley Interdisciplinary Reviews-Computational Molecular Science

### **Mathematics**

ACTA MATHEMATICA  
ACTA NUMERICA  
ADVANCES IN MATHEMATICS  
Advances in Nonlinear Analysis  
Analysis & PDE  
Analysis and Applications  
ANNALES SCIENTIFIQUES DE L'ECOLE NORMALE SUPERIEURE  
ANNALS OF MATHEMATICS  
BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY  
CALCOLO  
CALCULUS OF VARIATIONS AND PARTIAL DIFFERENTIAL EQUATIONS  
COMMUNICATIONS IN PARTIAL DIFFERENTIAL EQUATIONS  
COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS  
DUKE MATHEMATICAL JOURNAL  
FOUNDATIONS OF COMPUTATIONAL MATHEMATICS  
Fractional Calculus and Applied Analysis  
GEOMETRIC AND FUNCTIONAL ANALYSIS  
INVENTIONES MATHEMATICAE  
JOURNAL DE MATHEMATIQUES PURES ET APPLIQUEES  
JOURNAL FÜR DIE REINE UND ANGEWANDTE MATHEMATIK  
JOURNAL OF ALGEBRAIC GEOMETRY  
JOURNAL OF DIFFERENTIAL EQUATIONS  
JOURNAL OF DIFFERENTIAL GEOMETRY  
Journal of Dynamics and Differential Equations  
Journal of Nonlinear Sciences and Applications  
JOURNAL OF THE AMERICAN MATHEMATICAL SOCIETY  
JOURNAL OF THE EUROPEAN MATHEMATICAL SOCIETY  
LAW PROBABILITY & RISK  
MATHEMATISCHE ANNALEN  
Publications Mathématiques de l'IHES  
TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY

## **Mathematics, Applied**

ACM TRANSACTIONS ON MATHEMATICAL SOFTWARE  
Advances in Nonlinear Analysis  
ANNALES DE L'INSTITUT HENRI POINCARÉ-ANALYSE NON LINEAIRE  
APPLIED AND COMPUTATIONAL HARMONIC ANALYSIS  
APPLIED MATHEMATICS LETTERS  
ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS  
CHAOS  
Communications in Nonlinear Science and Numerical Simulation  
COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS  
FINITE ELEMENTS IN ANALYSIS AND DESIGN  
FOUNDATIONS OF COMPUTATIONAL MATHEMATICS  
Fractional Calculus and Applied Analysis  
FUZZY SETS AND SYSTEMS  
INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL  
JOURNAL OF MATHEMATICAL IMAGING AND VISION  
JOURNAL OF THE EUROPEAN MATHEMATICAL SOCIETY  
MATHEMATICAL MODELS & METHODS IN APPLIED SCIENCES  
MATHEMATICAL PROGRAMMING  
Nonlinear Analysis-Hybrid Systems  
NUMERISCHE MATHEMATIK  
SIAM Journal on Imaging Sciences  
SIAM JOURNAL ON MATRIX ANALYSIS AND APPLICATIONS  
SIAM JOURNAL ON SCIENTIFIC COMPUTING  
SIAM REVIEW  
STUDIES IN APPLIED MATHEMATICS

## **Mathematics, Interdisciplinary Applications**

Annual Review of Statistics and Its Application  
ARCHIVES OF COMPUTATIONAL METHODS IN ENGINEERING  
BRITISH JOURNAL OF MATHEMATICAL & STATISTICAL PSYCHOLOGY  
COMPLEXITY  
COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING  
ECONOMETRICA  
JOURNAL OF CLASSIFICATION  
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS  
MATCH-COMMUNICATIONS IN MATHEMATICAL AND IN COMPUTER CHEMISTRY  
STRUCTURAL EQUATION MODELING-A MULTIDISCIPLINARY JOURNAL

## **Operations Research & Management Science**

EUROPEAN JOURNAL OF OPERATIONAL RESEARCH  
EXPERT SYSTEMS WITH APPLICATIONS  
IEEE Systems Journal  
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS  
JOURNAL OF OPERATIONS MANAGEMENT

OMEGA-INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE  
TRANSPORTATION RESEARCH PART B-METHODOLOGICAL  
TRANSPORTATION SCIENCE

**Physics, Mathematical**

APPLIED AND COMPUTATIONAL HARMONIC ANALYSIS  
COMMUNICATIONS IN MATHEMATICAL PHYSICS  
Communications in Nonlinear Science and Numerical Simulation  
COMPUTER PHYSICS COMMUNICATIONS  
JOURNAL OF COMPUTATIONAL PHYSICS

**Statistics & Probability**

Advances in Data Analysis and Classification  
ANNALS OF STATISTICS  
Annual Review of Statistics and Its Application  
BRITISH JOURNAL OF MATHEMATICAL & STATISTICAL PSYCHOLOGY  
CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS  
ECONOMETRICA  
FUZZY SETS AND SYSTEMS  
Journal of Statistical Software  
JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL  
METHODOLOGY  
MULTIVARIATE BEHAVIORAL RESEARCH  
STATISTICAL METHODS IN MEDICAL RESEARCH  
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT