CURRICULUM VITAE OF MR MARY TEUW NIANE

PERSONAL INFORMATION
FIRST NAMES: Mary Teuw
Name: NIANE Sex: Masculine
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CURRENT POSITION Rank: Full professor of exceptional class
Knight in the National Order of the Lion of Senegal

SOME RESPONSIBILITIES :
- Founder member and Member of the Office of the Science and Technology Academy of Senegal.
- President of the Permanent Committee of the African Conference of Research in Mathematics Applied (CARMA).
- Member of the Committee of Program and Person in charge for the West Africa Area Zone2 (French-speaking and Portuguese-speaking) of African Mathematics Millennium Science Initiative (AMMSI) (2004-2006)
- Director of the Numerical Analysis and Computer Science Laboratory (LANI)
- Member of the Management Committee of the Network Partial Differential Equations, Modelling and Control
- Member of the Regional Commission of Experts of the Francophone University Agency (AUF) for West Africa (2003-).
- Member of the Scientific Council of the International Centre of Mathematics Pure and Applied (CIMPA), Nice, France
- Senior Associate Member of ICTP-Trieste-Italy (2000-2005)
- Director of UFR of Sciences Applied and Technology (UFR SAT) (1997-2003)
- Vice President of the Parliament of the University Gaston Berger of Saint-Louis (1999-2003)

SPECIALITY: PARTIAL DIFFERENTIAL EQUATIONS, MODELING AND CONTROL OF DISTRIBUTED SYSTEMS
Ph D : 1990
Subject: REGULARITY AND EXACT CONTROLABILITY OF THE EQUATION OF THE VIBRATING PLATES IN A POLYGONAL DOMAIN. Defended at the University of Nice-Sophia - Antipolis.

Doctorat d'Etat es Sciences Mathématiques : 1990
Subject: REGULARITY, EXACT CONTROLABILITY AND SPECTRAL CONTROLABILITY OF THE WAVE EQUATION AND THE PLATE EQUATION. Defended at the University Cheikh Anta Diop of Dakar, Sénégal.

TRAINING OF Ph. D students : More than thirty memories of DEA. Ten theses of Doctorate.

INSTITUTIONAL AND PEDAGOGICAL REFORMS : Installation of new courses in social and financial mathematical sciences, in applied mathematics and computer science.
I chaired the Commission university Chart of Senegal charged to lay down the orientations, to design texts organizing the universities of third generation of Senegal.

RESEARCH:
A forty communications, conferences, seminars; about fifteen mathematical articles; more than ten articles of mathematics and science popularisations.
A research on the functional analysis, regularity of EDP in irregular fields; control, modelling.

CO-OPERATION:
Thanks to my co-operation projects, Saint-Louis has become for ten years maintaining one of the hinged plates of exchanges in mathematics: regional schools (CIMPA for example), international workshops on several themes (modelling, EDP, control, computer science, artificial intelligence, etc.) ; West African Training School (WATS) (8 weeks each year); collaboration with the universities of North and the South in the training of PhD (Grenoble, Paris-Dauphine, Metz, Montpellier, Laval, Neuchâtel, Louvain La Neuve, GeorgiaTech in Atlanta, Ouagadougou, Abidjan, Nouakchott, Accra, etc). Through AMMSI and AUF, I take part in requests evaluation for scholarships, in attribution of founds researchers mobility, for the scientific visits and granting of subsidies for conferences, schools, workshops and exchanges projects between universities.

Some communications and courses:
Laboratory Alexandre Dieudonné, University Nice Sophia Antipolis, France. Elimination of the singularities in polygonal fields by local actions intern or borders. September 30, 2005.
ICTP School one Nonlinear analysis from 9 to 27 October 2006. Lecturer invites, course to be given: not linear optimization.

Some publications of science popularisation:
And if the figures spoke in national languages. Sun, WalFadjri, LeQuotidien April 2004.
And God saved Saint-Louis, Daily South, April 28, 2005; The Point, May 09, 2005.

Some recent scientific publications:
Exact controllability of the wave equation in fractional order spaces.
Co-auteurs Kalifa Bodian et Abdoulaye Sène.
Is it possible to cancel singularities in a domains with corners?