

GEOSPATIAL ANALYSIS AND GIS RESEARCH GROUP

NAME OF RESEARCH GROUP

Geospatial Analysis and GIS (Geographic Information System) Research Group (GAGISRG)

DEPARTMENT

The research group is domiciled at the Department of Geoinformatics and Surveying of the Faculty of Environmental Studies

RESEARCH FOCUS

The focus of the research group is in all aspects of environmental applications of GIS as well as in the development of GIS-based algorithms for data processing and analysis in order to improve the understanding of geographical phenomena. Applications developed cover the natural environment and the man-made landscape and allow mobile users to query their environment as well as monitor and track remote objects

RESEARCH THEMES

Research themes include:

- (i) Web-based Mapping and GIS
- (ii) Multipurpose Cadaster
- (iii) Location Based Services
- (iv) GIS Applications in Electricity Distribution
- (v) GIS Based Site Suitability Analysis for Renewable Energy Potential
- (vi) GIS Based Site Suitability Analysis for Waste Management
- (vii) Web Based Information System for Early Warning for Food Security for Nigeria

COMPOSITION OF RESEARCH GROUP

- (i) Prof FI Okeke (Coordinator) (francis.okeke@unn.edu.ng, 08035627286)
Department of Geoinformatics and Surveying, UNEC
- (ii) Dr. R. Ndukwu (Member) Department of Geoinformatics and Surveying
- (iii) Mr EN Chiemelu (Member, PhD Student) Department of Geoinformatics and Surveying
- (iv) Mr Kelechi Nwosu (Member, PhD Student) Department of Geoinformatics and Surveying
- (v) Mr. IK Maduako (Member, PhD Student) Department of Geoinformatics and Surveying
- (vi) Mr Chikelu Debem (Member, PhD Student) Department of Geoinformatics and Surveying
- (vii) Mrs Chiamaka Ehiemere (Member, PhD Student) Department of Geoinformatics and Surveying

BRIEF CVS OF SOME MEMBERS

(i) Prof FI Okeke

- (a) Professor of Geoinformatics and Surveying, in the Department of Geoinformatics and Surveying, UNEC since 2008
- (b) Dean of the Faculty of Environmental Studies since August 2014, and Head of Department (from 2010 to 2014)
- (c) President Nigerian Association of Geodesy (NAD) since 2011

EDUCATION

- (a) Doktor Ingenieur (**Ph.D**) in Geodesy and Geoinformatics, University of Stuttgart, Germany, July 1997.
- (b) Master of Science (**M.Sc.**) in Geodesy and Astronomy, University of Nigeria, Dec. 1988

HONORS AND AWARDS

- (a) German Academic Exchange Service (DAAD) Scholarship Award for Doctoral Research Program in Germany (1992 – 1997).
- (b) Post Doctoral Fellowship Award of the David Blaustein Institute of Desert Research, at the Remote Sensing Laboratory of the Ben Gurion University of the Negev, Israel (2002 – 2004).
- (c) University of Nigeria Vice Chancellor’s Academic Excellence Award, October 2008

MEMBERSHIP OF PROFESSIONAL BODIES:

- (a) Member, Nigerian Institution of Surveyors
- (b) Member, Nigerian Union of Planetary and Radio Sciences (NUPRS)
- (c) Member, Nigeria Association of Geodesy (NAG)
- (d) Member Association of America of Geographers (MAAG), 2010

(ii) Dr R. Ndukwu

- (a) Senior Lecturer in the Department of Geoinformatics and Surveying, UNEC since 2010

EDUCATION

- (a) Ph.D. Geoinformatics (GIS), 2011
- (b) M.Sc. Geodesy and Geodynamics 1999

MEMBERSHIP OF PROFESSIONAL BODIES:

- (a) Member, Nigerian Institution of Surveyors
- (b) Member, Nigerian Environmental Society (NES)
- (c) Member, Nigerian Union of Planetary and Radio Sciences (NUPRS)
- (d) Member, Nigeria Association of Geodesy (NAG)

(iii) Mr EN Chiemelu

Lecturer I in the Department of Geoinformatics and Surveying, UNEC

EDUCATION

M.Sc. Surveying 1999

MEMBERSHIP OF PROFESSIONAL BODIES:

- (a) Member, Nigerian Institution of Surveyors
- (b) Member, Nigerian Environmental Society (NES)
- (c) Member, Nigerian Union of Planetary and Radio Sciences (NUPRS)
- (d) Member, Nigeria Association of Geodesy (NAG)