



A free preprint service for African scientists

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Justin Sègbédji Ahinon, University of Parakou, Benin & Jo Havemann, Institute for Globally Distributed Open Research and Education (IGDORE) | Contact: info@africarxiv.org | www.africarxiv.org

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Why a preprint repository for Africa?

- More visibility for African research output
- Increased collaboration across the continent
- Enable cross-continental collaboration
- Make local research visible globally
- Trigger interdisciplinary research
- Share your research in your local language

Selection of accepted manuscripts

Null hypersurfaces in indefinite nearly Kaehlerian Finsler spaces
Samuel Ssekajja
Last edited: Feb 12, 2019 UTC
Physical Sciences and Mathematics Mathematics Geometry and Topology
We study the geometry of null hypersurfaces, M , in indefinite nearly Kaehlerian Finsler space forms F^{2n} . We prove new inequalities involving the point-wise vertical sectional curvatures of F^{2n} , based on two special vector fields on an umbilic hypersurface. Such inequali ...
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Geometry of isoparametric null hypersurfaces of Lorentzian manifolds
Samuel Ssekajja
Last edited: Jan 31, 2019 UTC
Physical Sciences and Mathematics Mathematics Geometry and Topology
We define two types of null hypersurfaces as; isoparametric and quasi isoparametric null hypersurfaces of Lorentzian space forms, based on the two shape operators associated with a null hypersurface. We prove that; on any screen conformal isoparametric null hypersurface, the screen geodesics lie on ...
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Some results on null hypersurfaces in (LCS) -manifolds
Samuel Ssekajja
Last edited: Jan 31, 2019 UTC
Physical Sciences and Mathematics Mathematics Geometry and Topology
We prove that a Lorentzian concircular structure (LCS) -manifold does not admit any null hypersurface which is tangential or transversal to its characteristic vector field. Due to the above, we focus on its ascreen null hypersurfaces, and show that such hypersurfaces admit a symmetric Ricci tensor ...
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Hybridization in human evolution: insights from other organisms
Rebecca Rogers Ackermann, Michael Arnold, Marcella Balz, James A Cahill, Liliana Cortés-Ortiz, Ben J Evans, B Rosemary Grant, Peter R Grant, Benedikt Hallgrímsson, Robyn Humphreys +11
Last edited: Jan 30, 2019 UTC
Life Sciences Biology Social and Behavioral Sciences Anthropology Biological and Physical Anthropology
During the late Pleistocene, isolated lineages of hominins exchanged genes thus influencing genomic variation in humans in both the past and present. However, the dynamics of this genetic exchange and associated phenotypic consequences through time remain poorly understood. Gene exchange across dive ...
AfricArXiv | CrossRef

Introducing: Second-order permutation
Bassey Godwin
Last edited: Jan 29, 2019 UTC
Physical Sciences and Mathematics Mathematics Discrete Mathematics and Combinatorics
In this study we answer questions that have to do with finding out the total number of ways of arranging a finite set of symbols or objects directly under a single line constraint set of finite symbols such that common symbols between the two sets do not repeat on the vertical positions. We go furth ...
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When re-using and citing published manuscripts the **preprint status** should be clearly marked.

Preprints are not formally peer-reviewed.

Accepting the following types of manuscripts

- Research articles
- Review papers
- Project proposals
- Case studies
- 'negative' results and 'null' results
- Data and methods papers
- Technical notes
- Dataset description papers

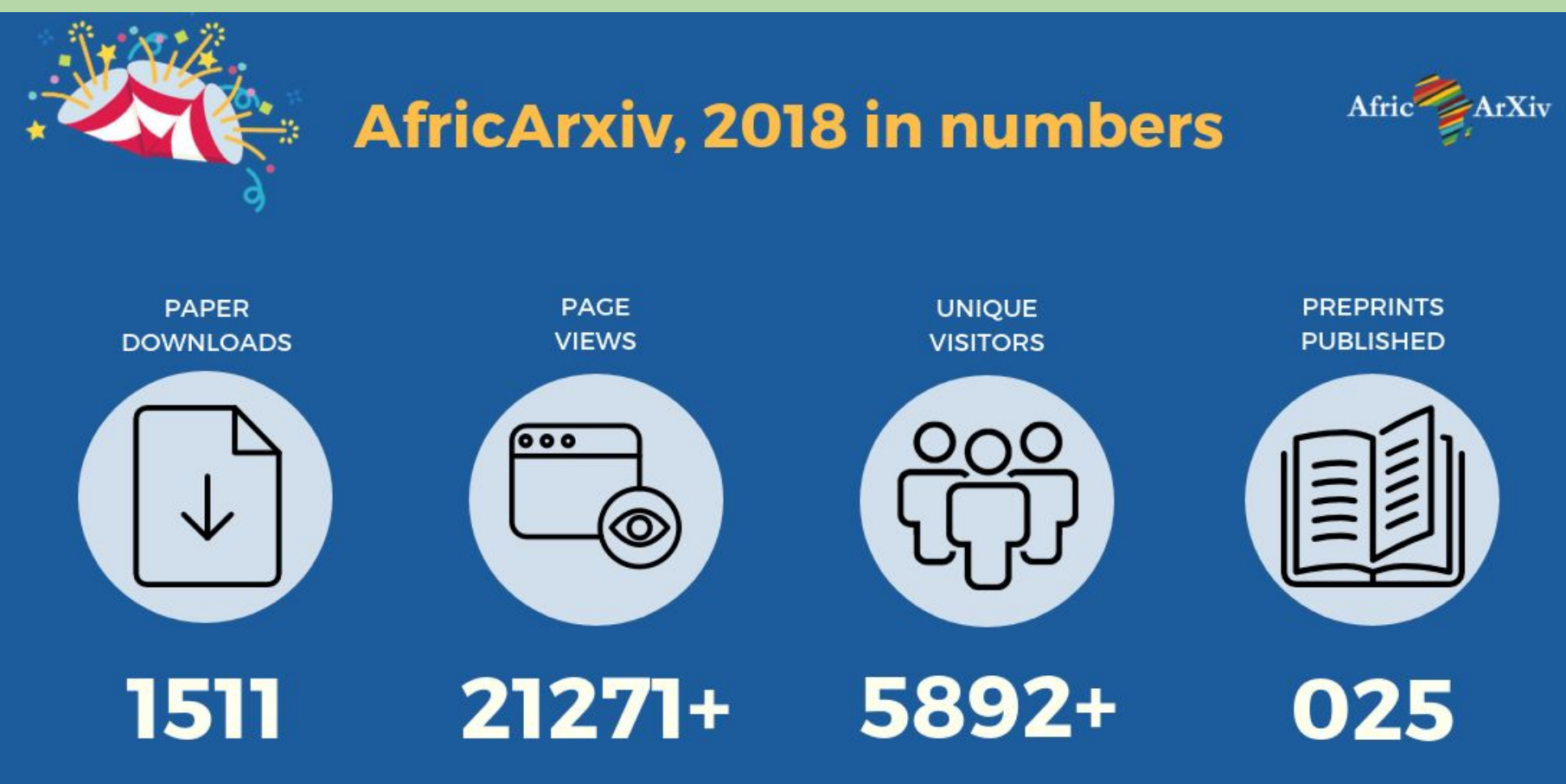
> Translations of the above

Submissions in African languages

- About 2000 local languages are spoken in Africa.
- Senegal, Nigeria and Kenya are investing in the promotion and enhancement of vernacular languages.
- Such potential for information dissemination remains untapped by the scientific research community in Africa for the time being.
- More people might be more inclined to share knowledge if they had the opportunity to do so in their mother tongues.

Encouraging submissions from

- **African scientists** based on the African continent
- **African scientists** who are currently based outside Africa
- **non-African scientists** who report on research conducted on African territory; preferably with African co-authors listed
- **non-African scientists** who report on research relevant to African affairs



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