

ABSTRAK

Perpustakaan digital IEEE Xplore adalah sumber daya yang kuat untuk penemuan konten ilmiah dan teknis yang diterbitkan oleh IEEE (Institute of Electrical and Electronics Engineers) dan mitra penerbitannya. IEEE Xplore menyediakan akses web ke lebih dari empat juta dokumen teks lengkap dari beberapa publikasi paling terkenal di dunia dalam bidang teknik elektro, ilmu komputer, dan elektronik. Data penelitian yang ada meningkat sangat banyak yang menyebabkan munculnya masalah penelitian dibidang analisis jaringan data bibliografi seperti co-citation dan co-authorship. Dalam thesis ini penulis menganalisa dan memvisualisasikan jaringan sosial co-authorship dari penulis-penulis Indonesia yang mempublikasikan jurnal penelitiannya di IEEE Xplore dengan bantuan aplikasi gephi. Disini penulis menggunakan data dari IEEE Xplore yang merupakan graph tak berarah terdiri dari 4339 titik dan 8610 rusuk. Dalam graph ini titik merepresentasikan penulis dan rusuk merepresentasikan hasil karya publikasi penelitian bersamanya. Penelitian dilakukan dengan analisa pengukuran grafik secara global dan analisa pengukuran lokal ditiap titik.

Kata kunci : Social Network Analysis, Co-authorship, Gephi

ABSTRACT

The IEEE Xplore digital library is a powerful resource for discovery of and access to scientific and technical content published by the IEEE (Institute of Electrical and Electronics Engineers) and its publishing partners. IEEE Xplore provides web access to more than four-million full-text documents from some of the world's most highly-cited publications in electrical engineering, computer science, and electronics. Research data increases enormously which arises many research problems in the domain of bibliography data network analysis such as co-citation and co-authorship. Here in this thesis we are showing results of visualizing and analyzing of co-authorship social network of researcher from Indonesia who published their research paper in IEEE Explore with the help of gephi tool. We use IEEE Explore dataset which is undirected graph and contains of 4339 nodes and 8610 edges. In this graph nodes are taken as author and edges connect two nodes/authors according to their association in considered research paper's dataset. We have been research in measuring the graph in global (Macro level) and local (micro level) in each node.

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