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(54) **SELF ORGANIZING MAPS FOR VISUALIZING AN OBJECTIVE SPACE**

(75) Inventors: **David Amid**, Kiryat Ata (IL); **Ateret Anaby-Tavor**, Givat Ada (IL); **Peter Bak**, Haifa (IL); **David Boaz**, Bahan (IL); **Shahar Chen**, Omer (IL); **Ofer Michael Shir**, Jerusalem (IL)

(73) Assignee: **International Business Machines Corporation**, Armonk, NY (US)

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(58) **Field of Classification Search**
None
See application file for complete search history.

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Primary Examiner — Kakali Chaki
Assistant Examiner — Ababacar Seck

(57) **ABSTRACT**

A method of visualizing a plurality of designs which comply with a plurality of objectives. The method comprises acquiring a plurality of designs each represented by sequential multivariate data indicative of a compliance with a plurality of objectives, generating an objective anchored based self-organizing map (SOM) having a plurality of objective anchors and maps the plurality of designs in an objective space, and outputting the objective anchored based SOM. Each objective anchor is associated with one of the plurality of objectives, each the design is visualized in the objective anchored based SOM by an indicator which the distance thereof from each the objective anchors is indicative of a compliance thereof with a respective the associated objective in relation to other of the plurality of objectives.

21 Claims, 5 Drawing Sheets

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