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GUEST EDITORIAL PREFACE

A New Direction of Chance Discovery

Akinori Abe (Department of Letters, Chiba University, Chiba, Japan)

To obtain a copy of the Guest Editorial Preface, click on the link below.

http://www.igi-global.com/Files/Ancillary/c64bbd4d-8434-4258-8930-a956b3c9244d_1947-8208_4_1_Preface.pdf

PAPER ONE

Supporting Inter-Group Relationships in Human-Centered Chance Discovery

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Luke Gumbleton (School of Computing and Information System Faculty of Science, Engineering and Computing Kingston University London, London, UK)

Human-centered chance discovery involves ad-hoc teams of experts who inspect the output of a chance discovery algorithm and develop scenarios for decision making. The team members typically are from different areas, such as product design or marketing, and have relationships to their own teams in these areas. Therefore the inter-team relationships affect the performance of the chance discovery team. The issue of how to support such relationships is addressed by reviewing an earlier team support system that supported intra-team relationships rather than inter-team relationships as well as the theoretical concept of relationality. It was found that both do not sufficiently consider inter-team relationships. Therefore an interview study with 10 practitioners in Japanese tea clubs has been conducted with the objective to enhance the relationality concept. The study equally focused on experience in the tea club and the life history of the interviewee. The result suggests five new characteristics of relationality. The paper concludes by describing a system that implements these characteristics and extends the previous system to inter-team relationships.

To obtain a copy of the entire article, click on the link below.

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PAPER TWO

Visualization of Insight Process in Concept Creation Focusing Handwriting Features

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In order to support concept-creation, the authors focus on handwriting assuming that it should contain the information on the process toward insight. As a result of intensive analysis of handwriting in concept creation process, one observation is that pen speed gets faster on insight after the period in which pen speed is relatively slow or time gaps get increased. Another observation is that pen pressure gets higher on insight after the same kind of period as above. Based on those observations, the authors derive a hypothesis on relationship between insight process and handwriting. In some situations, they could create new concepts by getting aware of inconsistency or constraints, by making their viewpoint changed, and then by getting an insight. The authors think those processes can be visualized through handwriting by monitoring some features like writing speed and pressure, and this could be effective support for concept creation.

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PAPER THREE

Unstick Tsugoes for Innovative Interaction of Market Stakeholders

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Masahiro Akimoto (Kozo Keikaku Engineering, Tokyo, Japan)

Sticky information, has been known to well explain the localization of ideas, i.e., that information in the brain of either inventor in the producing/selling side or consumers in the buying/using side of products do not always prevail in the market. This sometimes disturbs the process of innovation. In this paper, the authors break sticky information into sticky tsugoes, where a tsugo is a triple of the intention and two types of constraints behind each stakeholder's acting/planning. The authors studied cases of Innovators Market Game[®] - a serious game for innovative workshop involving stakeholders in the market, to visualize the interaction of the tsugoes of those stakeholders, in the form of Human-Tsugo Network (HTN) by using KeyGraph[™]. In the results, links between inventors' and consumers' tsugoes in HTNs correspond with the performance of innovative communications more finely than sheer KeyGraph visualizing the relations among words in the dialogue.

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PAPER FOUR

Selecting Chance Curation Strategies: Is Chance Curation Related to the Richness of a Cognitive Niche?

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The aim of this paper is to tackle the following issue: as it is renowned that chances can be faked, it seems intuitive to think that the inhibition of chance-faking contexts is a good activity of chance curation. Yet, could this activity sometimes be counterproductive? The question will be answered positively considering the case of bullshit as a case of fake chances, but also as a fertile ground for learning and developing intuitions. Ultimately, this paper will argue that the peculiar context, that is the cognitive niche supporting the (potentially) fake chances, is the discriminating factor: indeed, a rich cognitive niche may benefit from certain kind of fake chances – which should therefore not be inhibited – whereas a poorer niche might not benefit from this situation, and therefore the preclusion of fake chances is an act of chance curation in those contexts.

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PAPER FIVE

Relation between Chance Discovery and Black Swan Awareness: From the Viewpoint of Abduction and Affordance

Akinori Abe (Department of Letters, Chiba University, Chiba, Japan)

Researchers have been researching for chance discovery more than 10 years. The aim of chance discovery is discover something, but chance discovery is rather different from data mining. In 2007 Taleb introduced a concept "Black Swan." Taleb uses this rare black swan metaphor to explain how general persons tend to ignore rare or novel events and the importance of being aware of such rare or novel events. The main concept of Black Swan seems to coincide with that of chance discovery. Thus, in this paper, the author compares a chance with Black Swan and presents the future feather of chance discovery. In addition, the author will discuss how to discover the better chance from the viewpoint of abduction and affordance, and give formalization.

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