



## Developing Random Virtual Human Motions and Risky Work Behaviors for Studying Anthropotechnical Systems

By National Institute for Occupational Safety and Health U.S.

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injuries to operators of underground coal mining equipment

have led to an investigation of safe vertical velocities of a roof

bolter boom arm at the National Institute for Occupational

Safety and Health (NIOSH)s Pittsburgh Research Laboratory.

There are currently no regulations or method of determining

the safe speed of roof bolter boom arms. Accident

investigation reports from the Mine Safety and Health

Administration (MSHA) do not usually contain enough

information to aid in studying interactions between a machine

and its operator. Lab experiments with human subjects also

are not feasible because of safety and ethical issues. With this

in mind, NIOSH researchers successfully developed a computer

model that uses simulation software. This report documents

the development of special features of the computer model,

random virtual human motions and behaviors, which made it

possible for researchers to study hazardous interactions

between the operator and machine This item ships from La

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