ABSTRACTS

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ANALYSIS OF COMBINATION OF NON-TRADITIONAL HEATING AND VENTILATION EQUIPMENT IN LABORATORY CONDITIONS
(pages 1-5)

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Abstract: Paper is dedicated to the issue of heating of the closed areas by using of a ventilation system with forced air supply and heat recovery and floor convectors with installed fans. Experiment and simulation model created in system ANSYS Fluent 14.0. In the simulation as addition were secondary gains included heat gains from the computers and monitors and heat gains produced by the service personal. The result of the experimental measurements as well as the realized simulation confirms the possibility of heating a room only with HRV as well as possibility of heating of it combination with floor convectors.

COMPUTED TOMOGRAPHY – ARTIFACTS CAUSED BY PATIENT
(pages 7-10)

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Abstract: One of explain what is the artifact in science and technology is artifact (error) than misleading or confusing alteration in data or observation, commonly in experimental science, resulting from flaw in technique or equipment. Artifacts can significantly interfere the quality of CT images to such an extent that they are useless for diagnosis. For the needs of optimizing image quality, it is necessary to understand why artifacts arise and how is it possible to prevent from them. In CT the notion artifact is applied on any systematic non-conformity between CT numbers in a reconstructed image and real coefficients of attenuating of scanned object. In this articel we describe some artifacts caused by patient.